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2,000 Miles Through Europe's Oldest Kingdom With 9 Illustrations and Map 32 Natural Color Photographs

ISOBEL WYLIE HUTCHISON

History Repeats in Old Natchez

With & Lilustrations 16 Natural Color Photographs

WILLIAM H. NICHOLAS WILLARD R. CULVER

Oasis-hopping in the Sahara

With 7 Illustrations and Map 21 Natural Color Photographs

MAYNARD OWEN WILLIAMS

Sea Fever

With 25 Illustrations and Map JOHN E. SCHULTZ

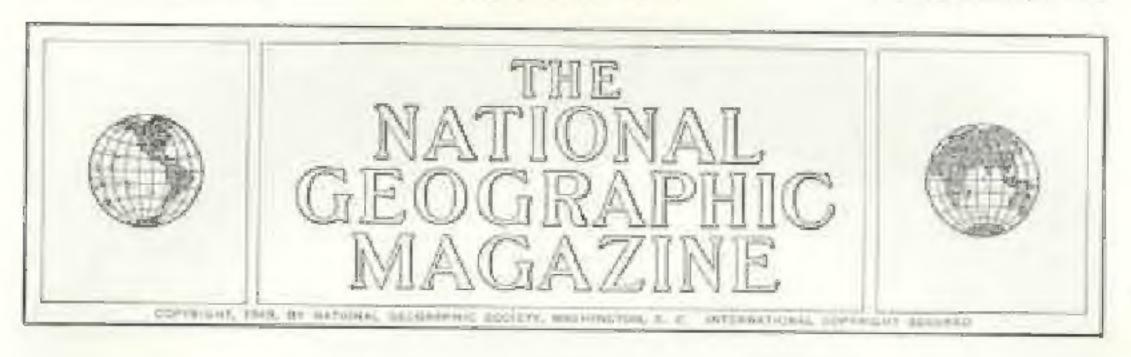
Biggest Worm Farm Caters to Platypuses

W. H. NICHOLAS With 15 Illustrations

Fifty-six Pages of Illustrations in Color

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## 2,000 Miles Through Europe's Oldest Kingdom

By ISOBEL WYLIE HUTCHISON

Illustrations by National Geographic Photographer Maynard Owen Williams

AN APRIL GALE was tossing the waves into spindrift as our ship thrashed out from the Firth of Forth on her 700-mile voyage to Copenhagen (København). The hitterness of ice was in the air; there was little to suggest that we were headed for a month of sunshine, a Danish Maythme as warm and fragrant as our fuelless British winter had been hard and ice-bound.

Forty-eight hours after leaving Scotland we sighted Skagen's lighthouse on the long hooked forefinger of Jutland. Thereafter we followed a mine-swept channel to the narrow Sound (Oresund) which divides Denmark from Sweden.

In Helsinger the copper towers of Hamfet's Kronborg Castle flashed in a watery sun as we approached the Danish shore. In its dark casemates sleeps Flolger Danske, Denmark's King Arthur. So long has he slept, says legend, that his beard has grown into the stone; but if danger threatens Denmark, Holger will waken so quickly that the stone will be shattered as be wrenches his beard free.

Perhaps he stirred when the Germans slipped past Kronborg in the early morning of April 9, 1940, concealed in the holds of cargo ships. At all events, he gave his name to a famous Danish sabotage group defying the invaders of their common homeland.

As we neared Langelinie, Copenhagen's sea-boulevard, I looked apprehensively to see what changes war might have made in one of Europe's laveliest capitals, but, save for the absence of the Royal Yacht Club Pavillon (blown up by Germans), I noticed none.

There sat the "Little Mermaid" on her stone (page 156); there, across the barbor, rose the

picturesque warehouses of the old Greenland Dock, from which tall-masted ships set out for Denmark's great island-colony; there, still unharmed, soured the lovely spice of the Bourse with its twisted dragon tails. These at least were unchanged.\*

#### End of an Era

Yet an era was ending. Across the water came the sound of tolling church bells. In the Royal Chapel of Christiansborg King Christian X lay dead under his ermine pall, his coffin surmounted by the crown of Denmark. Before his bier, bour after hour, trooped tens of thousands of every age and class, to whom in Denmark's dark hour this beloved King had been a beacon.

Little children drooped asleep over parents' shoulders or sucked ice cream (the panacea of the Dane) with their elders, all patiently waiting to pay brief homage to the man who had been father rather than King to his democratic family of four million. It was more than three hours before I could enter the chapel, and many were still arriving who could scarcely hope to gain admission before the gates closed.

One thinks of the Danes as a family more than a nation, for of all European nations they seem to me the most domestic. In post-war Europe they are also an uncommonly happy and well-fed family.

The most tespic place in Copenhagen today is the little copse at Mindeparken, Ryvangen,

"Royal Copenhagen, Capital of a Farming Kingdom," by J. R. Hildebrand, February, 1932; and "On Danish By-Laurs," by Willis Lindquist, January, 1940.



In Rationed England, Danish Eggs and Butter Help Relieve the Austerity of Postwar Living

Through a model packing station in Skive pass millions of eggs a month. Each egg weighs and sorts itself in this automatic grading machine. Each cold-storage vault holds enough to provide a breakfast egg for every Scot in Aberdeen. Exports have not reached the prewar level when Danish heas faid enough in a year to provide one egg for every person on earth.

on the city's outskirts, where over 100 members of the Danish resistance movement perished. They were tied to trees, shot, and buried where they fell. The ground has now been cleared and made into a tidy cemetery.

When I saw the long rows of graves on a bright May morning they were purple with punsies. This peaceful graveyard on the fringes of the tramline is Denmark's Lidice. Here perished some of her bravest sons.

I had promised to deliver six lectures for the Danish-British Society, a flourishing hody which has branches in several parts of Denmark. These lectures took me first to Viborg and Skive, and to Nykobing on the island of Mors (map, page 144).

It was impressive to find in these Jutland towns audiences which understood English and showed such keen interest in other lands. Many of those I met were members of the National Geographic Society. Europe's oldest kingdom is one of the Continent's best instructed countries. Compulsory education, introduced in 1814, was reinforced 30 years later by Grundtvig's famous Folk High Schools. These aim to train adult students in the art of living (page 150).

It is rare to find a Dane who does not understand some English. Though fellow travelers were tolerant of my efforts to pronounce their difficult language, they preferred to try out their English. Talk was usually of food and prices. In spite of spoliation during war years, Denmark is Europe's biggest food exporter.

#### Resistance to German Occupation

On the train to Vibory I traveled with the mother of the engine driver. Her talk was not of farming, but of hard times during the German occupation. Her son, a member of the resistance movement, had been in



Jonaln Ex.

No Bicycle Built for Two Is Needed When Junior Goes for a Ride

In Coponhagen, where the land is that, there are ten bicycles to one motorcar. At the most hour or day's end, a motorist tech the catio is higher. Skillful but daring cyclots weave in and out, many of them balancing a small child. Some youngsters taste the joys of cycling before they learn to wall.

constant danger of his life from both sides, because of Danish subotage on tailways used by Germans. At last the Germans threw him into a concentration camp.

"Fortunately it was in Nord Slesvig." she said, "which was at least better than Germany! You cannot imagine our joy when the war ended. No one would believe it. All along the street people were opening windows, putting out their bends, and asking it it were true. Then-out came the flags!"

My hosts at Viborg were a lawyer and his wife who had escaped to Sweden one jump ahead of the Gestapo. By night they slipped across the Oresund in a sailboat with their family. Fortunately their timbered house escaped damage, as did Viborg's old cathedral with its arresting modern frescoes.

From Viborg I went on to the pleasant town of Skive. Its streets climb a hill from which the twisting Skive River can be seen wending its leisurely way. Not far away lived the

farmer-poet Jeppe Aakjar, translator of Robert Buros.

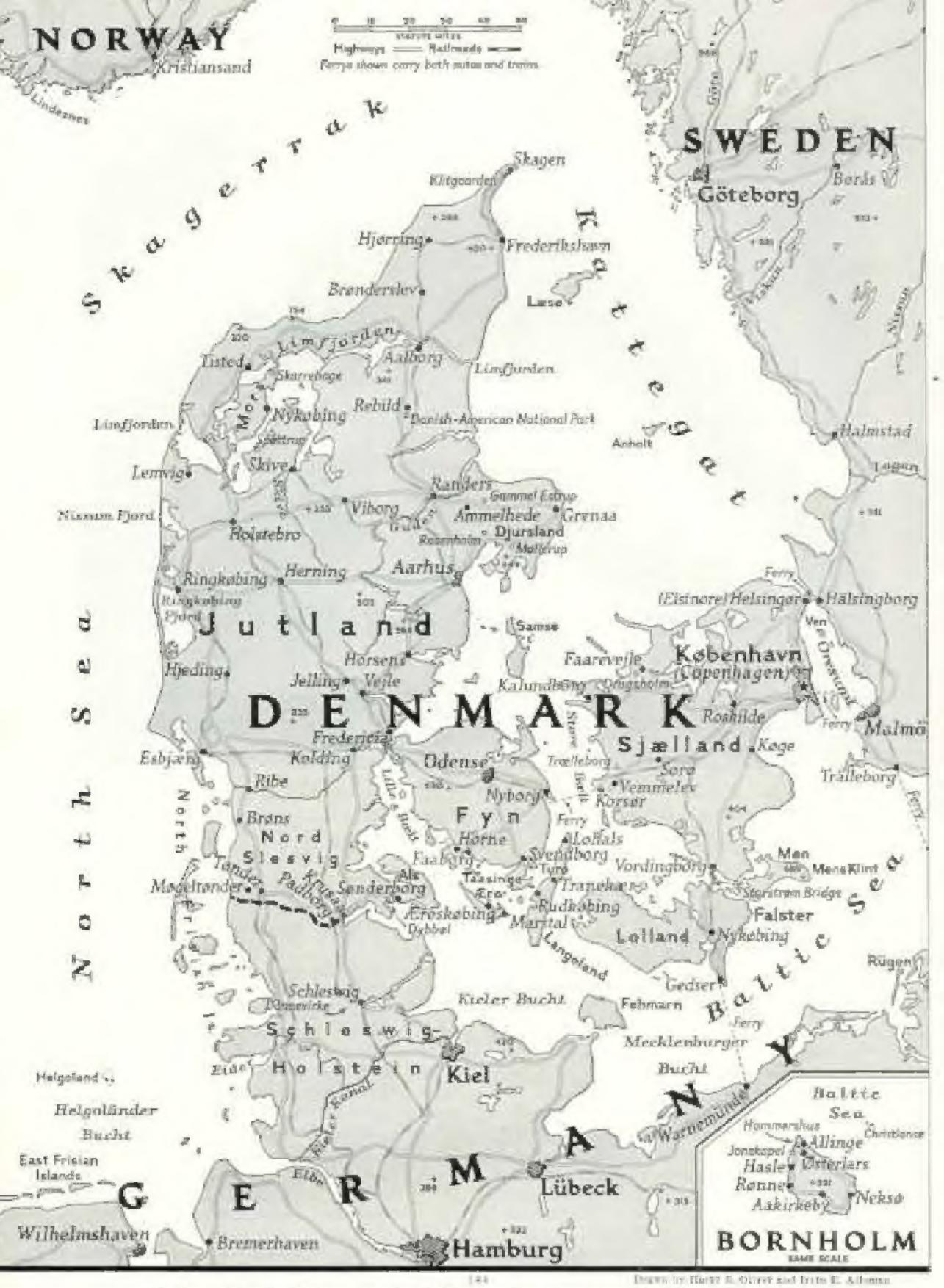
Skive is also the home of northern Europe's most modern egg-pucking station, which to an egg-starved Briton sæms a veritable Aladdin's Palace (pages 142 and 147).

At the door eggs in their thousands were being unloaded from lorries.

After being graded and candled, they are placed in boxes in cold storage chambers. Each full chamber holds 540 cases, and each case contains 50 dozen eggs enough to supply a postwar Briton with his weekly egg for 3,738 years!

At Skive's large "bacon factory" it was (fortunately for my feelings) an off-day. For this the manager apologized.

"It would have been more interesting for you," he said, "had it been a day when we slaughter. Our trade is not what it was before the war, when we killed thrice weekly. Now we can do so only once."



Like a Hooded Ghost, Jutland Hovers Over Denmark's Island Kingdom

Viking sea-lords, forebears of the Danes, controlled these three straits between Baltic and North Seas and reamed the seas to France, England, and even Greenland. In an area twice that of Massachuseus live 4,000,000 Danes.

In an adjoining hall I saw prime sides of bacon steeping in brine. "All our best goes to England," I was told. "Britain is our largest customer. We Danes can get only the second-best, and not much of that just now. We need more fodder for our pigs; then we could have more sausages and lever-postei" (a delicious liver paste).

Selecting a couple of sausages from a "rope" hanging from the ceiling, the manager flung them into a vat of boiling water. When they were ready, we ate them in our fingers and found them excellent. We went away still cuting, for it is almost impossible to avoid doing so anywhere in Denmark.

Near Skive, in a 16th-century manor house, is the well known Krabbesholm Folk High School. In early May it was full of gay young women improving their general education and learning to spin and weave. The school had a memorable atmosphere of quiet happiness on the bright spring morning of my visit. The woods which surround it were starred with anemones, and fruit biossoms hang in snowy cascades above the garden walks.

When the bell rang for dinner we all sat down together, from gardener to headmaster, to enjoy the simple but ample fare. With such "Schools of Life," it would seem that the little country on the forelinger of Europe has much to contribute to both the spirit and the appetite of a distressed continent.

#### Invulation Millions of Years Old

"This," said the manager of the Skarrehage Moler Works, "is the earliest impression we have of life in Denmark. It is about 60,000, 000 years old."

This was a bit of Moler, a substance of marine origin found only in Denmark, on which was imprinted the pattern of a fishlike backbone. I saw it on the Island of Mors in the Limfjorden, famous to geologists for the unusual volcanic formation of its cliffs, and incldentally, to gournets for its oysters.

At the north end of the island lies Skarrehage. Here Moler is made into insulating bricks, experted to all parts of the world.

When I returned to Copenhagen I found a letter from a Danish friend inviting me to the most remote of Denmark's Baltic islands, Bornholm. After an all-night boot trip from Copenhagen I transferred to a motorcycle sidecar for an island tour.

We visited the granite cliffs and flowery dell at Jonskapel, heard a nightlegale singing in the wood below the medieval fortress of Hammershus, and tasted Bornholm's specialty golden-skinned smoked betring—when we hanched in the fishing port of Allinge. At Osterlars we visited one of the island's four remarkable round churches, of which there are seven in Denmark.

At Nekso, in the southeast corner, I came face to face, for the first time in Denmark, with the devastation of modern war.

Under the guise of docility the sturdy islanders played an important part in the Danish resistance movement, as they had done in 1658. At that time they had refused to obey the Copenhagen authorities, who had could the island to Sweden, and had risen as a man against the invaders. From 1660 until the Germans arrived in 1940 Bornholm belonged to Denmark.

#### American Airmen Smuggled to Sweden

Sweden played a very different part in World War II. Weapons from her ports were smuggled to Copenhagen through the Bornbolm backdoor, by which Danish saboteurs and Jewish refugees escaped in the reverse direction. Not a few American airmen, forced down on the island, were cared for and convoyed to safety in Sweden by the islanders, regardless of the risk they ran.

On May 7, 1943, one day before victory in Europe, the tragedy began. The Germans on Bornbolm insisted they would surrender only to British troops, refusing to give up their arms to the Russians. They ared on two Soviet planes flying in over Neksa.

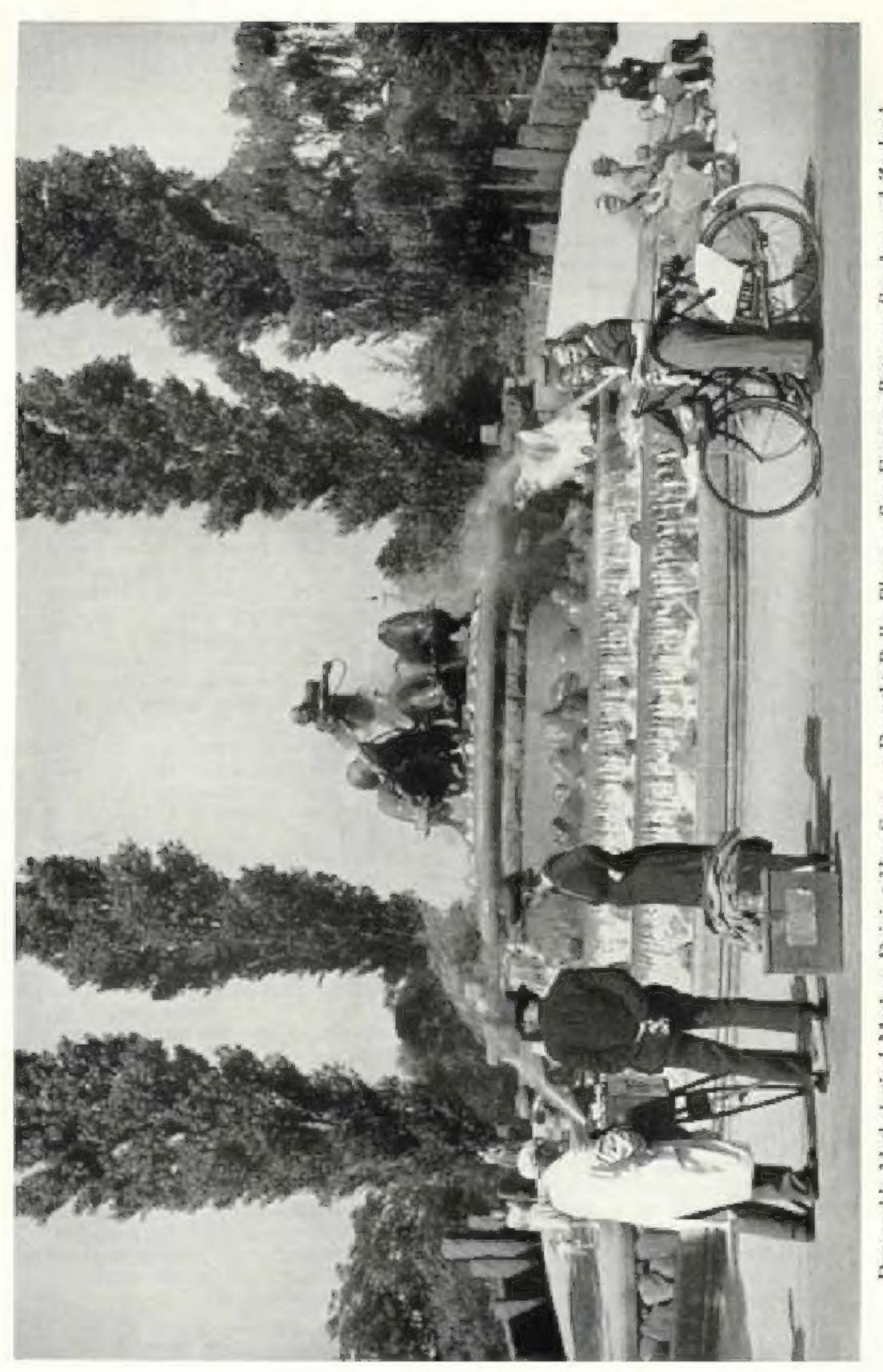
This was the signal for a two days' air bombardment by the Russians which laid most of Nekso and a good part of Rome in ruins. Small wonder if, when the rest of Denmark rejoiced, there was allence in Bombalm.

In Copenhagen again, I was joined by Dr. Maynard Owen Williams, of the staff of the National Geographic Magazine, who was to explore Denmark with me.

On the first morning we took a short preliminary trip. To satisfy the murbid fancy of his two Scottish passengers—my sister and me— Dr. Williams drove us past flowering orchards and whitewashed farms to visit a mummy.

Our goal was the little church of Faurevejle on the northwest side of the island of Sjælland, where James Hepburn, Earl of Bothwell and third husband of Mary Queen of Scots, sleeps uneasily under the constant inspection of the curious—a singular fate for a man who spent his last five years in solltary confinement in the dangeon of the near-by easile of Dragsholm. There madness and death relieved his sufferings in 1578,

See "Bornholm—Denmark in a Nutsbell," by Mason Sutherhood, National Generature Manager, February, 1945.



He granted her as muck as she could plow around in a day. Anders J. Bundgaard's fountalls and statue at Copen-Her Sons as Draught Balls, Plows a Son Farrow Between Sweden and Zealand a peninsula, making Zealand (Sjælland) an island. Waves represent furrows, fountain jets, the dust clouds of her plowing Transforming her sons to bulls, she plowed across the neck of hugen commemorate this learned. Waves represent furrows, is Before the Goddess Gefort returned to Vafhalla, she just Denmark's Mythological Mother, Driving



bacon and other products to Great -About a Thousand Dozen news more than \$100,000,000 worth of eyes, butter, baron and Dame. Small Denmark is postwar Europe's largest mod exporter. To Appreciate Such Oval Wealth, Just Picture Each Egg "Sunny In 1747, when one strictly rationed egg was a bleadag in England, Denmark som. Estima, This was an average expert of 843 for each Dane.

Bothwell had escaped from Shetland only to fall into the bands of Frederick II of Denmark, who was a lover of dogs if not of men, for on his tomb in Roskilde Cathedral his favorite bound is commemorated by an in-

scription.

The congregation was just dispersing when we climbed the bill on which the church stands, for it was Whitmonday. A Lutheran pastor in cassock and ruff as stiff as Queen Bess's own stood in the doorway, apparently unabashed at having just added another to four centuries of sermons, for the list of pastors at Faarevejle goes back to 1536.

#### Bothwell's Mummy Leers at Fate

The church officer rolled back the matting in the center aisle and lifted a trap door. We descended a short ladder to the vault where the coffin, accidentally uncarthed in \$858, has been placed, and peered through the glass lid.

The skeleton remains partly mammified. One blind eye and a wound in the skull are held by some experts to be sufficient proof—though others doubt it—of its identity. The mouth is a little open and drawn back, as if in a last defiant snarl at fate.

We left Copenhagen next morning, Nykebing on the Island of Falster our destination for the night. Falster was linked to Sjælland in 1937 by the great Storstrøm Bridge, some

two miles long (page 169).

South of Copenhagen we stopped at Kuge to visit the oldest dated frame house in Denmark, the delightful little Borghus built in 1527 and still standing on its original site

(page 179).

We passed into the high, dark church of St. Nicholas close by. Christian IV's richly carved pew, the pulpit, and the organ loft, decorated by Henrik Reinecke of Koge with unusual panels depicting the five senses and nine muses, all stand as they did three centuries ago.

Kege, we gathered, was a conservative town, for even its latest building fastered an old tradition. From a staff on its unfinished roof hung a triple wreath of evergreens. We asked a passer-by what it meant.

"An old custom," was the answer.

Birthdays and gold and silver wedding anniversaries, as well as house warmings, call for flags and garlands in this friendly land which understands so well the art of living.

In the market square, opposite the oldest Town Hall still in use in Denmark, stood a Victorian carriage and pair with a coronet on its panel and a liveried coachnan on the box (page 161). This equipage of nobility was a rather unusual sight in this democratic land,

where even the King walks unattended. ("Who looks after the King?" a German trooper had asked a Copenhagen messenger boy. "We all do," was the lad's classic answer.)

From Falster we crossed by ferry to the island of Mon. Its remarkable chalk cliffs, in places 400 feet high, are a famed beauty spot (page 173). They are wooded to the edge and intersected by glades full of unusual wild flowers. From these tumbled masses of chalk the sun drew delicate lights of gray-green and rose, reminding me of Greenland's icebergs.

We wandered by narrow paths along the cliff tops with their background of glittering blue sea. Far off a little fishing craft spread

its sail toward the island of Rugen.

Regretfully we turned back to Sjælland and came to Valdemar Atterdag's old goose tower at Vordingborg. The goose with flapping wings which surmounts it was Valdemar's medieval way of thumbing his nose at enemies across the sound!

We spent the night in Sora to visit this oldworld town's famous Academy, Denmark's largest state boarding school, standing on the site of Bishop Absalon's 12th-century monastery. In 1586 Frederick II turned the building into a school "which by the royal muniticence was to house the children of nobles and commoners in equal numbers."

The school has had its ups and downs, but it now possesses rich endowments. Parents of modest oreans whose boys are clever enough to pass the stiff entrance examinations can have their sons educated under the best con-

ditions for very low fees.

#### Viking Sertlement at Trælleborg

But even these venerable buildings seemed young compared with the Viking settlement at Trælloborg. Sheep were grazing in the green enclosure where the Vikings built their wooden-walled fortress on a broad headland between two small streams (page 180).

A thousand years ago these meadows were navigable waterways to the Great Belt (Store Belt), and the site was convenient for the sea rovers, who would be surprised to know that every summer thousands of visitors come to Twelleborg to see the traces of their village.

The sun was near setting when we came at last by shining ways to Odense. Though it is an important industrial city and Denmark's third largest town, an atmosphere of fairy-land clings to it. The street in which Hans Christian Andersen's birthplace stands is like a fairy tale Itself, with its low elfin cuttages.

From my window that evening I had a view of copper spires, red-tiled roofs, and chestnut trees brilliant against the setting sun.



A Bathing Girl on Marstal's Warm Sands Nibbles Ice Cream from Denmark's Dairyland



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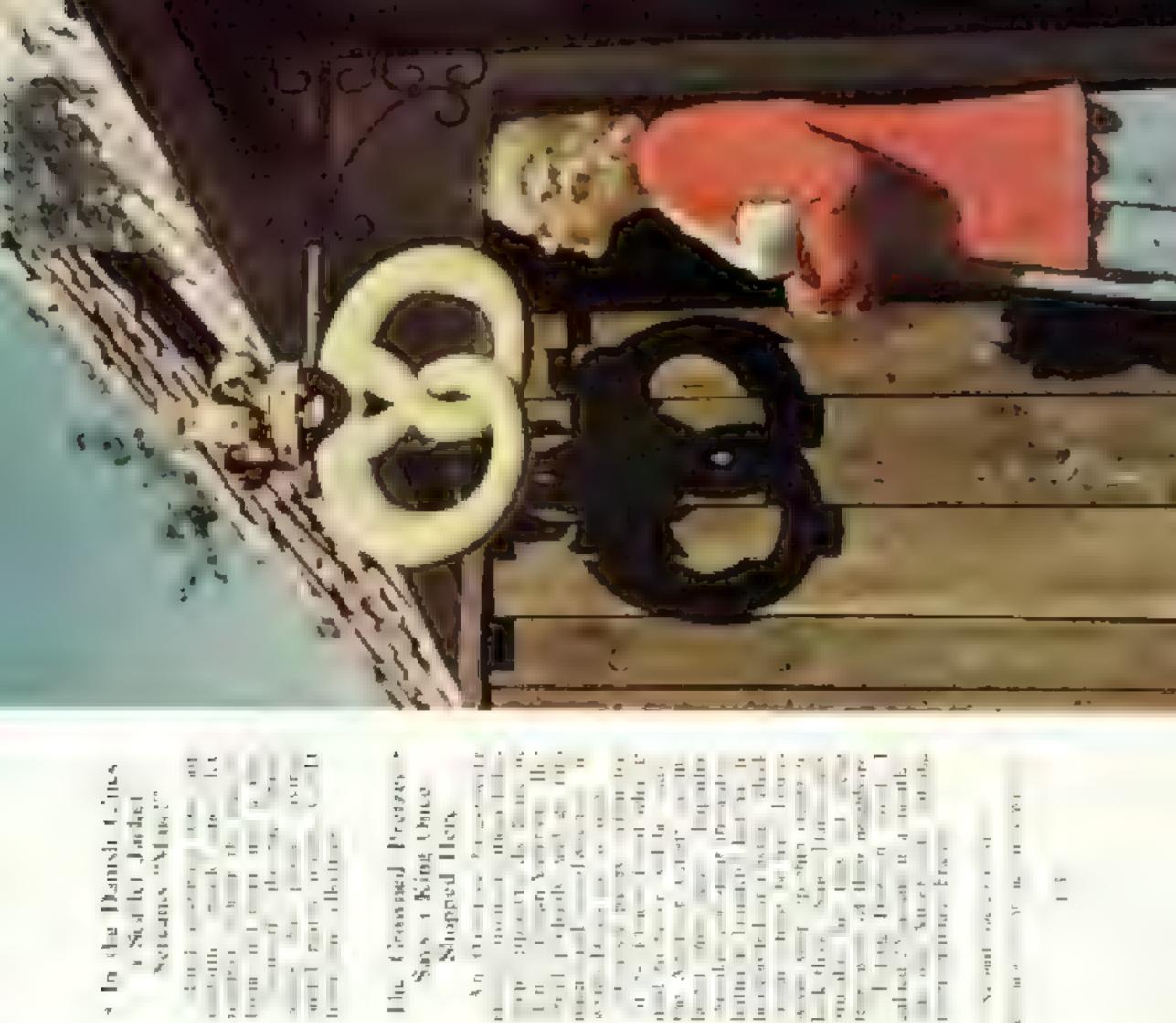
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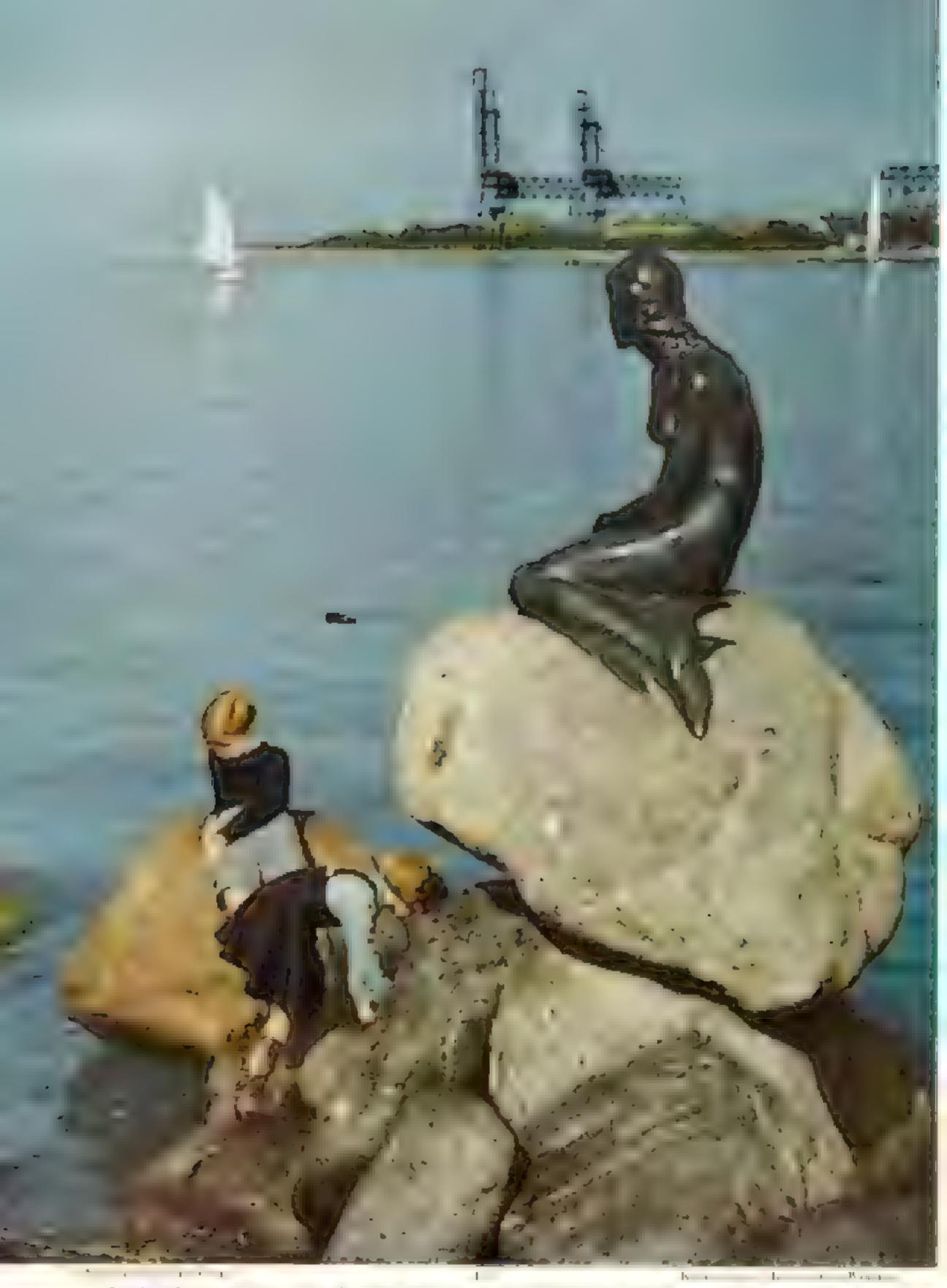
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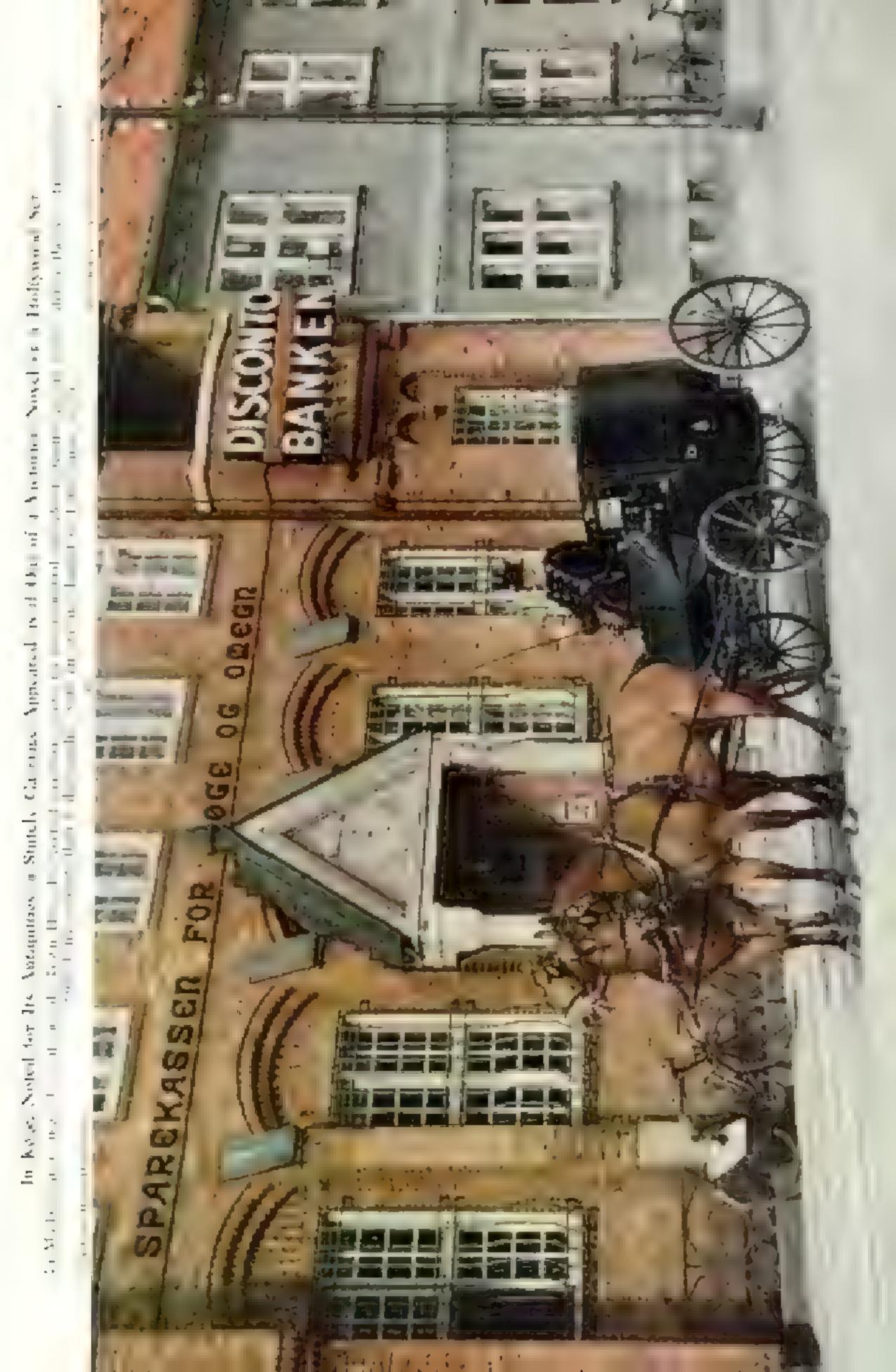


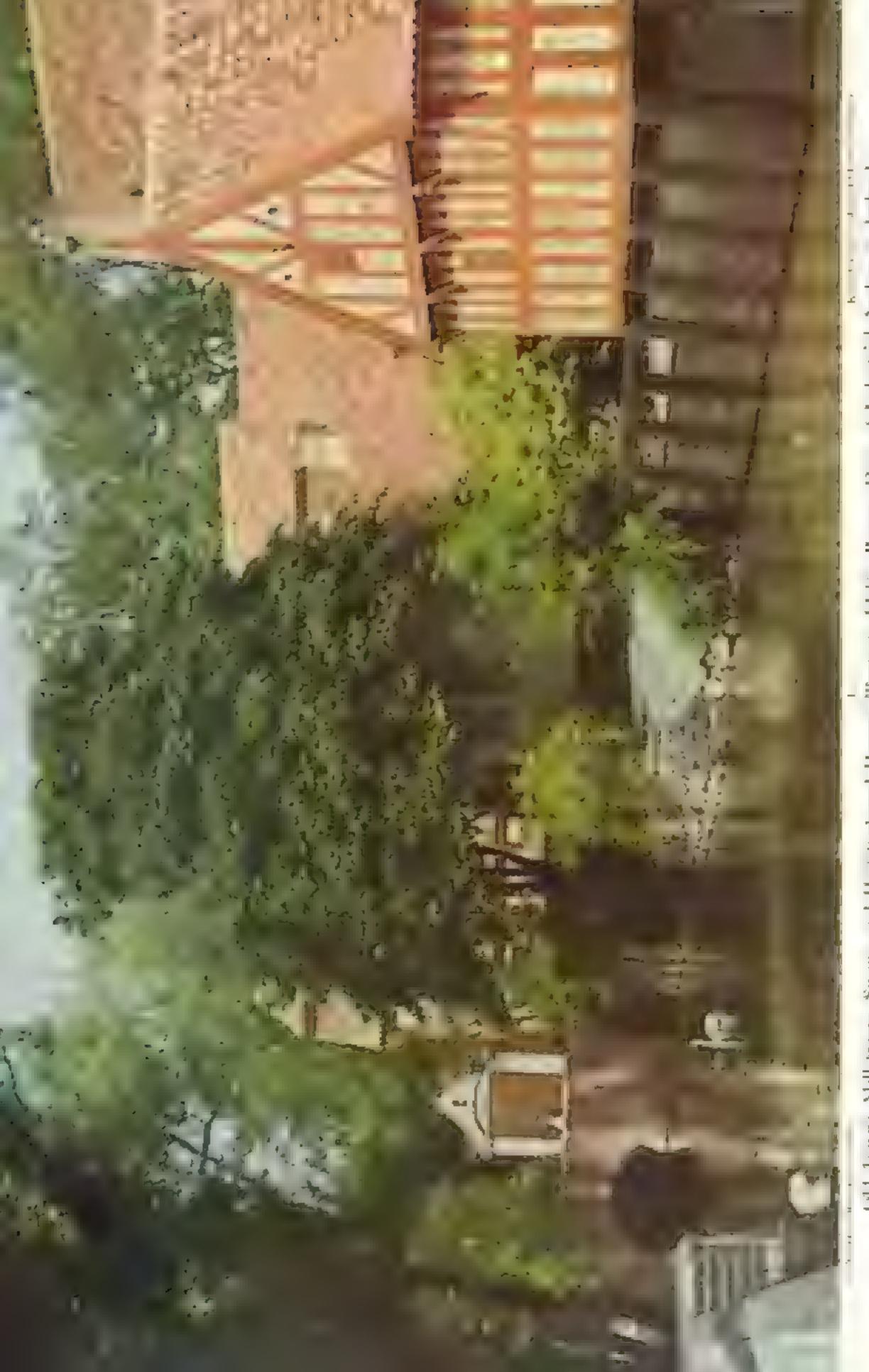


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In their branches a thrush was snoing late. the could it be Hans Andersen's nightingale?

In the masseum which lass here gifted to the poet's cott se the story of his life, which he bintself rightly regarded as another fairy. tale, is unfailed (pages 151 and 174).

Here are the many solvenits which he bleed to collect, includes a dotter hill over to him by a young girl, Aldgad Tompkins, when American children showed their love for the poet by starting a collection in his aid. (Against this, however, he protested, for he was not in need of money). A letter sent to Andersen by Abigail 49 years little shows how ling her admirate at laster.

Though Antherson never visited the United States, his interest la it is shown by two finely illustrated volumes in his library, published in 1877 and entitled Picturesque America.

#### Where American Soldiers Relaxed

Thousands of American soldiers from Germany have relaxed in the sands of Kristiansminde, these to picturesque Sverd ang on the southern coast of the island of Lyn.

Tyn is the land of herreguarder, red brick loth-century manner of uses mirroring copper spaces in mosts and ponds—Ryganed, built in 1537, with long kolghts' gallery and immensely thick walls; Glorup where Hone Anderson was Master of Ceremonies at the wictory celebrutions for Panish troops in 1848-50; lovely Hesselager with its watchman's gallery from which, through slots in the wall, healing lend could be journed on the heads of assailants n days of old.

"But you must see Fgeskov, too," said Hesselager's gracious chatchine, the Baroness Karen Blixen-Emerke, 'for it is one of the loveliest castles in Demourk,"

Egeskow's red walls were colored yet redder by a flery statset when we saw them seemed as truly a fairy palace as far-far all Brubett flebotg home of Count Reventlow, the zetlected towers of which shimmer in the lake of a beautiful park umid the shudows of Phinson, white, and golden water usies. It is not suffersing that hyn gave birth to Hans Amberson, who was a welcome gard at numy of these magor houses,

From Svendborg we crossed to the orchardislands of Turo and Taasinge, a few minutes distant Admiral Niels Juel, who was he famous sea victory over the Swedes at Kage in 1677, purchased Tausinge with his prize money, and it is still, like Svendhorg, a center for sadors and yachtsmen,

It was Sun lay; family parties were setting and for a day on the water. Everybody went from grandma to the baby. Dr. Williams

stopped to take a photograph, and Grandma herself came forward, broke blue sprays from the freguent bush everbanging her gurden wall, and smillingly presented them to us ble spoke to English; it was ber graceful

way of "saying it with flowers."

From Tansinge we crossed by ferry to the old market town of Rudkohing on the long thin adams of Langeland. We found its medieval furtress of Transker shuttered and deserted. But Labels, the little port at the north end of the Island, was a scene of Lvel. ness, with a mercy children's party in full swing at the hin.

Off southern byn les the tiny island of Alte with its collabiful "skipper" towns of Æreskølding and Marsial. We enjoyed Æreskøbiag from the twin pumps in its ancient square, which still supply water for the town, to its friendly inhabitants.

In Marstri we stopped to photograph a cottage. Its owner invited us to view her remarkable little hume, which she and her hustand had turned into a private maseum with no thought of personal gain (page 174).

Three were carried chests in which brides two centuries ago kept their linen, painted wooden "that-imps" for smoothing clothes, ships' fly trebea is—even a couple of china does by ught by some mariner from Scotland, for the sea, so vital in Henmark's history, breathes through the life of Æro

In most Danish churches hungs a ship mortel presented by some salk r as a thank offering for his preservation in showreck, perhaps, or merely as a thank offering for ships. In the beautiful old church at Marstal there are five

A aum of money has been left by a captain. of the town to provide care for the momentum. seamen's graves in its churchyard. We clamhered to the top of the chatch lower, from which there is a clear view toward Kiel

During the war," said a Dane who had accompanied us, "we saw the asands of Albert hambers passing over. We could bear the hombs and see the flames in Germany. How this rlot tower used to shake!"

#### A Tuwn of Remunee and Fairy Tules

We spent our last night on Fyn in the charming town of flathing, where in August. 1830, Hans Christian Anderson not his Luorn-eyed first love, Riborg Voigt,

The summerhouse still stands where he vainly courted her, for she was secretly betradied to amother. But until her death Riborg kept a little bunch of thewers which the poet had given her, and when Andersen dual is letter from Riberg was found in a wallet on his lateast.



In a Pormer lishing Village, a Fishwife Cleans Fish Beside the Spanse of Her Clan

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Fashore is called the "town of pain ers" and has "one art gallery, for delight in painttow a ranked characteristic of the Danes, Loral nurseums, too, are frequent in Den2 ark.

The oldest and largest of the bells in the last of the bells in the last of the bells in the last of the bells in 1946. Fortunitely, is the last war it to possible the steel many of the bessig bells.

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From Harsens we saled at the National Latinesses beautiful ketch. Nursual II, the some the food. As we have set filled No constant when we returned by mountight Such. Not. In the first filled to a great them.

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experimental farm, we passed in a wood to see the touching memorial to "Ange and Hardy," thirteen-year-old schoolboys who lost their lives in 1945 when they blew up a German annualistic dump there. A third boy escaped in time, Denmark's resistance movement began anyong the schoolboys of Anthong, who took Churchill's name for their group.

Near by we visited a Danish camp for displaced German civilians. Though well fed and housed in army huts, they had a dispirited air. Despite vigorous protests, German refugees were poured in a Denmark in thatisands in the spring of 1948. We were told that Denmark was supporting about 200,000, costing the small country more than even its hospitality rould afford. By the end of 1948 they were all repatriated.

We joined some 60 representatives of the foreign press invited to spend two days in east Jutland to study Danish faming. On a brilliant morning we set out in three omnibuses to visit dairies and farms south of the

city of Aarbus.

After lunch we learned of the "almost explosive" development of dairy farming in Denmark, which started with its first dalty at Hjering in west Jutiand in 1882 and today forbides nearly 1,500 cooperative dairies, as well as 150 private ones. A rectury ago there were only 500,000 milk cows in the country; today there are 1,500,000.

The geographer is tempted to wonder if the success of Denmark's cooperative system may not be due fiterally to the "lie of the bank." Denmark is a flat country with no dividing in a mains or valleys such as constrain the Norwegian or the Scot to individualism.

Later we visited a typical Danish small holding. Its owners, with the help of their son, worked their twelve-acre farm themselves, growing a variety of crops. They also attended to eight cows three sows with latters, 100 hears, and several bechaves. The farmer's day in Denmark has no eight-hour limit!

#### Aarhus Specialty: Meat for Dessert

Visitors to Aurhus, Denmark's second city, recapture something of the leisure of the past as they wander the reconstructed streets of Old Town, the tenowned Folk Museum bunded by Dr. Feter Holm in 1909 (pages 162-164).

This open air "museum" contains 45 old buildings rescued from description, the most recent being a saddle maker's orightful little house and a tannery moved from Rangers.

In the startlingly modern Town Hall, with its 197-fort-high clock tower and interior decomptions even more modern, the Burgomaster entertained his 50 pagests at a lancheon which

lasted for two hours and wound up with a third meat course instead of a sweet. This, we were told, was an Aarhus specialty!

The Town Hall is not the only modern building in Ambus. Its University started work in 1928 and already has 1,000 students. University was bombed by the Gestupo, the University was bombed by the British in 1944.

At the historic mansion of Mollerup, on the Djursland peninsula, the journalists were entertained by its owner, a lask who manages one of Jutlan I's largest forms and possesses a fine rating stable. Ordeted out of her house by the Cestapo, she refused to leave her house entirely in German hands and moved from her mansion to a room above the stable.

Our tour of Djursland ended in a Danish opera singer's home, one of the show farms of Jutland with its long barns of sleek milk cows, stables of powerful Jutland horses, and well-

planned fields.

#### Resistance Bighter of 600 Years Ago

It was mining at lest when we left Aarhas to cross the high rolling district of north central Jutland. Our destination was Aalborg on the Limiterden, which tuts the peninsula in two. As we drove north the sky partly cleared, and sun wood, and cloud made the day a pictorial one. Base fields stretched on either hand; here on I there Millet-like men and women were boring against wide herizons.

We crossed the Nails Fiberen Bridge over the Guden-one of the largest rivers in this land of small streams—and came to the redroded town of Randers. The door of the old thur, h of St. Morten was open, and we went in to see its rich 17th century carvings

Dutside in the square a statue of Niels Lobesea, Denmark's Robert Bruce, recalls the national hero who in 1340, at the head of a small band of followers, killed the German ususper, Count Gerhard. In recent times Ebbesea's name was an inspiration to Danish resisters. Several of these perished near Randers, and their honored names are commented on a great bandler.

Randers' Tourist Bureau is housed in one of the town soldest to its ings, the Helligaands Hus, which beconged in the Middle Ages to the friars of that order. The half-timbered hulding has a stork's rest on the chimney.

Near Randers stard the castles of Gammel Letrup and Rosenholm. For sex centuries Gammel Estrup passaid down in only two families. The last private caner. Count Christen Scheel, if ed in 1926, and since 1930 the castle has been a muse in

Lovely Rosenholm, with its most and bridge gunt led by two sad-faced flons, its pictures



Advent a Cathersal Background Yment Polks of Anthong Have Fund a change for Anthony gives Dans on a high sware merry-gors and a change to kell up their beauty carriers at Aathory gives Dans on a high sware merry-gors and a change to kell up their beauty to a second or the same in

In the phase we passed to prize the track the prize that the second that the prize the prize the track the prize the track the prize that the priz

#### Danies Calabrate the Fourth of July

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Tark at Rehald in morth Judand, with it Income the race, a the material of the area for North Judand with it is not an area of the North form was presented in the race of the North form American and the provided for the second state of the second

No lovester setting could have been been taken these to the tops grainfilling it count in the action of the action of the action of the action to the action of the action



Hereig a Investig Briggs. Discould Children Gabble Their les Rewind for Freding the Strategin Bridge, linking Faster to Spring, was opened in 1947. Resting on 51 piers, it excits a safet in 1947.

rad Princess, and a gather see at 45 000 people. as endded from all parts or Denmark and Appearance to the parties of the sample difference े के क्रिक्ट के लगा का विभाग है है का स्टूबरी है। है triveren son to ter produce the greatings to the old return in mackets. the same from Karter to Albert we At the lates beautiful political at the days then The Action of the heart appeters bill no to the wing real told the Charge envierated from this research to the layer the Christian I at we come out you be Lyr coloreal management of the later than the conpresented by each state of the Union, it house the transfer to the transfer days, raclusting a covered wagon tool Umb.

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Needs and Rith?"

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Copunisation's "Madeweether Lady" Looks Down at Town Hall Square

At Jatland's northern tip we stand amid the sand dunes. Through a leare, flat country we had traveled that morning from Auliety. Pasture had given way to heath; pine and is bound the sands. Near the village of Skagen we had found amid the pines the drawned tower of St. Laurentins' thurch worwhelmed by a great sandstorm which swept this coast in 1775

Half hadden in the blue sea grass beside us conched the low memoral to Denmark's lyric part. Holger Drarbmann. Artists were thought to discover the windswept charm of Skagen, now a popular summer resort. The King of Denmark has his summer vidu, "Klit-

gaarder, ' near by

Isomaark can gave points to most countries in her care for the aged. The Ministry for Social Affairs built more than 4,000 small the magnificant partments for their accommodation ("openhagen, and almost every town of one size has its Old Folks" Home.

Returning to Authors, we visited one which is unique. It is housed in an old monisters of 1450, which has been completely reconstituted, through a still retains on the walls of the chapter house remarkable 15th-century murals. The old people occupy pieus-ant single-room homes in the upper story

The old fals, assault become so attached to their homes," the warden to so that they don't want to seave them. When one old man in a Randers home inherited a large fortune, he gave all the money beak to his asyl' for a new groupsion so he wouldn't have to leave his single room!"

#### Cartle Walls Hid Smuggled Weap as

Motorists in a hurry can travel the length of the Juliand perinsula in a long pay. We went more slowly, passing or a more through Vibring and bkive. Near there, accompanie by a Idstorically-minded waiter (who would accept no reward save the satisfaction of shawing his country to strangers), we visited the Jamous castie of Spottrup.

Dennick's firest example of medicial military architecture, Spottrup stands amic marshes which were once sea. Citalle watls, that feet thick, hid weapons smaggled over

from England during the war

Denmark's history in a nutshell. It has a front bishops to tobles, from not less to large farmers. Now the State has bought it and split it into small holdings for many farmers. That is good; that is Daulsh desmocracy at very happy

A lexcept the stocks, who are not, perhaps democrats. Thus ghe the rusty wheal where



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the first the second of the harbiplaced measure bears a bull of the course of the large second of the courses.

they built their pests still stands on the thirdney stack, the stocks left Spattrup with the

last private owner.

We found them at home, he wever, when we arrived next evening in the Ad south Juliand town of Ribe. It was a long drive from Skive to Kize, for we chose less frequented roads in a world of soud beside the North Sea.

boon after passing through the bustling town of Esbjerg—I remark's only ke-tree commercial port and the basy terminus for traffic with England—we saw rising over the marshes, as Fly rises over the English fens, the square tower of Ribe cathedral.

Here in 862 Bishop Ansgar built his wooden church, replaced, 500 years later, by the present building. In the Mra He Ages ships from

Ribe sailed to all parts of Europe.

"Have you seen our storks?" the cathedral custodian asked when we came down from the tower. Yes, we had counted five or see nests above the red tiles of this deligitful town. The castodian said we should have counted 15, for RTe is the sort of place where they number their storks.

From Ribe we travelled in the print of ancient wars along the tringe of Nord Slesvig.

This Danish Lorderland is historic ground. At almost every croseroad memorial stones remind the visitor of Denmark's writhings to free herself from the talons of the German cag e—her short-lived success in 1848, and the long amenation of Nord Slesvig under German role from 1864 to 1920.

#### Stork Nests on Party Line

At Brons we were halted by a stark whose fame had reached Copenhagen before we left there. Small wonder, for this adventurous bird had built its huge nest on the top of a way-side telephone pole, where it was unconcernedly rearing its chicks (page 171).

We drove to the old garrison town of funder through wilder country, where until the ear of the 18th century wolves still were hanted. This bestock border town once employed 12,000 lace makers, but their delicate art is now thoost extinct

The skull of the thatcher, however, is still in demand in the next-by village of Mogel-tonder, where we found one of these artists hard at work on an old next.

At Tunder we were close to the present German frontier, which most Danes, not least the south Siesvig minority, would like to see withdrawn to its old geographical limits north of the Eider. There the great earthwork of Danes in the 9th century to tepel the barbarian hordes from the south

Near the frontier village of Padborg a barries of barbed wire and a sentry-post stopped our further mivance. Deeping over the wire, we saw a woman and child band in hand walking up the street.

This fence dividing Slesvig into two zones seems a very artificial barrier to those it stops. As we continued on our way to Krosan, we wondered how it feels to live in an area where a few yards either way

make such a difference in caloriest

krusaa is a busy place with much military traffic. Oblickels permitted me to walk to the German side, where the Union Jack flew above hispirited German soldiers, who looked at me glumly. In a near by sentry box an imperturbable British soldier smaked a pipe over his hometown newspaper.

#### Crossroad Memorials Teach History

A little beyond Krusan a company of school chalten were gathered around a crosspool memorial. "At this spot," recorded the boulder, "Christian X met the Danes of south Slewig on 12th June 1920. They shall not be forgotten."

The sun had set on Dybbal Mill, and Denmark's historic battleground Lty in shadow as we came over a rise and saw by ow the fertile island of Als and its capital, Souter borg. Prussing guns destroyed much of old Spadecharg in 1864, but the town still retains an old-world charm.

The fertile soil of Als is literally filled with the dust of the past, for over 3,000 prehistoric graves have been counted on the island,

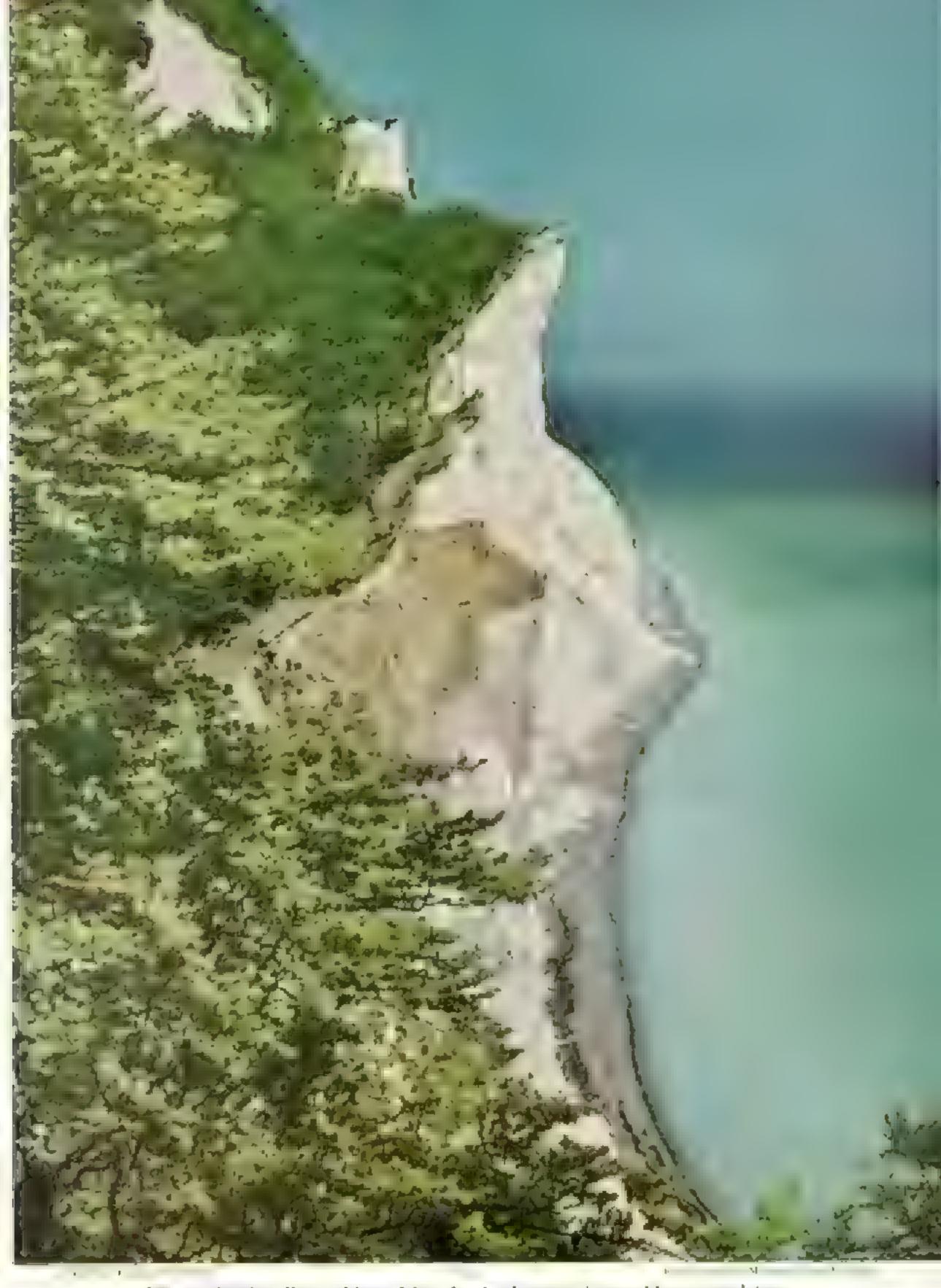
The preen redoubts of Dybbol, so batterly contested when Denmark lost Slesvig to Germany in the 1860's, are now a national park

and to the Danes a sacred spot.

The Mall itself, twice shot to preces and restored, still falfils its function. On its flag post the Danish flag flew throughout the recent occupation. As for the ornate obelisk which Germany raised on the top of the bill to commemorate her victory in 1864, it is to-day a heap of rubble, destroyed by Danish sahoteurs.

Als was a happy apilogue to our teur of 2,000 miles through Europe's oldest kingdom. Next morning we tak the ferry which landed as again in lovely Faaborg. Recrossing the Great Belt that afternoon, we reached Copen bagen the same evening.

We cale traited our return by a vivit to the Isted Lion, a memorial to Danish solders killed in the War of 1848. Restored to his native land in 1945 by Alicel might after long exile in Germany, he looked upon us, we thought, with a friendly eye.



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### History Repeats in Old Natchez

By WILLIAM H. NICHOLAS

With Elle to read the National Grandple Physics physical Reverter

ng back to the durable ante-bellum maneurs of Natchez, Mississippi.

Industrial plants and oil, pumped from four tields in Adams County, are spreading wealth in Natchez for the first time since the War Between the States and later the bull weevil ended the reign of its fabulous cotton barens.

Cotton supplied the gold which built the "more stately mansions" on those high bluffs werlooking the Massissippi River (page 190). In pre-fivil War days wealthy planters vied with each other over the size of their spacious hases. They went to Europe to find carved marble mantels mage pold-leaf mirrors, tose-wood futniture, heavy brocade drapes, fine statuary, and other costly famishings with which to adore them.

#### Golden Adv of Notches

Plantas on owners cantered into Natchez on spirited better. Their dazzling ludies were drawn in fine carrages, with livered outriders and appointments of gold and silver tyage 1831. Officering balls testified to the general afthence

Then come reverses. The straitened owners with new into their big houses, and Nauchez with drew into itself. A gran straggle for survival began, to last for the better part of a century.

Paint peeled from the walls of the once-resplendent dwe large and from the once-shiring pillars and columns. Though drapes molded, and-blocked French wallpaper spacked

Focay, with new wealth, mansions have perked up again. New point and new plaster have worked wonders

In the Lost few years half a dozen homes, long ago abundoned in disrepair, have been restored. Once usee they stand proudly alongside those which more successfully with-stood the lean days.

Restorat on of one of the oldest plantation houses recently was marked by a tange but-becker. Two thousand people attended. Pinetorch flares held by Negro boys lighted the lane to the mansion. Bands played.

formal occeptions signalized the reopening of two other hig houses. Long-darkened chanter are not in the hage drawing rooms were lighted. Through and champagne appeared in abundance.

Like old times," sushed more than one Natchezan,

Almost the first thing I saw as I entered the out-kirts of the old town one supply Sunday afternoon was a storage yard jammed with ripe and other oil field equipment.

#### Industry Brings New Wealth

Later I walked across the expressive floor of the hage \$7,000,000 insulating board plant being rushed to completion by Johns-Manville Corporation. I visited the Armstrong Tire and Rabber Company where 700 men were hard at work. I passed a chething fact my where machines clarked busily. Here were sources of the new wealth.\*

I strolled to the plaza at the edge of the river blaff, rising 200 feet above the M ssissippi, and looked across the bread expansion water to the Louisiana lowlands. For untild years before the white men came this area was the home of the Natchez Indians.

In 1716 Jean Baptiste le Moyne, Sieur de Bienville, the French colonizer, clamtered up the bluff to establish a stockare, which be named Fort Rosalie. But 13 years later the Indians massacred the settlement's entire population.

At the chare of the French and Indian Wor-British redcoars took over bort Rosale. Within 10 years some 15 hoglish families occupied large grants of bod about the settleness.

I bering the Revolution a third flag flew over Nature—the flag of Spoin. While England was occupied along the Atlantic seaboute, the Spaniards moves, in the back door and toos the town. Not ustil 19 years later was the young United States able to gain possession

Near where I stood at the edge of the rive fluit was the southwest terragues of the his Natibez Trace, witherpress trul which to proceed days linked Natibez and Nashville. Femossee, 450 miles away

#### Buffaloes Built Natches Trace

thereind builders of the Natchez Trace were buildness. On their way to salt licks or feeding grounds, year after year, their books beat out trails through the wilderness. Several of these trails, when joined together by the Italians, led southwesterly from Nashville to the Mississippi. This rule road system provided

\*See "Markens Come in Manager" by J. R. Haldelmand, National Greeness, \* Manager's September, 193



For 150 Years Bucket Ropes Grooved This Cistern's Rim

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#### Natchez Houres Spell Romance

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#### Homes Recall Spanish Way of Life

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There skeletops have been tenearthed from the celat.

Natches homes built between 1775 and 1800 teffect Spanish or Louisiana paintation payoners, with high steps, low reliber, from grilles, asy implications, or paved paties. They also recall the gay days of the Spanish governors, who brought to Natchez their gramms ways of like.

Part of Hope Farm, one of the earliest of these pleasant dwellings, was erected before 1775 and later was the bone of then Carlos de Grandpre, one of the Spanish rulers (page 198). I noted the building's hand-howe cypress timbers, fastened with we dea peet all as so not today as when the house was built.

The old home was test and about 20 years ago by Mr, and Mrs. Built or Miles. Among its exquisite furnishings, a crystal randled ght lamp suspended over the dining mone take particularly caught my eye.

Mrs. Mult, a descendant of our of the towns oblest families, is the originater of the Natchez Pilerimage. Skeptical Natchez businessence octaidered it an impractical dream, but after the first tour they presented her with a loying cup.

Wals of fortiske thickness enclose The Elms, a graceful, pink staced reminder of the Spanish era. Low refleres in the original part of the nease, built by a forgotten grander about 1783, contrast strikingly with the high ceilities of an annex, erected 75 years after. The graceful wrought from staircase; wrough siron butters looks, and keys; are an old by-grown rule of an arch in the scales and cancella garden are other Spanish reminders.

#### Cupid Conquers Both Blog and Gray

The most comantic episode at The Elus goes back to Civil War days. Federal guards abound the home were alreat to be removed. But Mass Nancy Thornfull, the years lady of the house, requested that one handsome young Union others he permetted to remain recause he was "such good company." Her mainfully request was granted; they fell in ove and were apartied.

Mrs. Joseph B. Kellogg, the present mistress of The Elms, is a member of the sixth generation to live in the mellow old home

Lacy iron galeries in hor eyenckle and rose notifs gince the laded red-mak fagade of Bontura, a Spanish Creole master rece. Built in the 1790's, it later came into possession of Don José his jura, wealthy Portuguese tayers keeper and wite need ant

fraction says Mark Twain and Stephen Foster were entertained at Bont ira. From its balacrites tager spectators watched the epic steam rest tax e between the Natches and the Kahert E. Lee (page 187). But rally ads and watchwases encroached on the mansion until it so declined that it was about to be condemned

Now Boatura has been restored and once again can we to me guests with wine and music. On the drawing room floor of magnal typess is spread an Aubusson rug of the 1850's

On Ellicott's Hill stands Connelly's Tavern, built by a Frenchman or Spaniard before 1795, page 206). Here a Quaker, Andrew Ellantt first flew the Stars and Stripes over Natchez in defiation of the Spanish authorities. A shap's archatect was responsible for the tavern's exquisite interior woodwork.

#### Tavern Scene of Burr's Conspiracy

Beneath the vaulted taproom ceiling Auron Burr plotted with his confederates to set up a Southwestern nation. Harr was tried for treason at Washington, Mississippi six miles east of Natchez. It is said that attendance at the trial was so great that court was believed to down, beneath giant oaks that stand today on the edge of the campus of Jefferson Coilege.

I saw copies of taxers rules from ploneer days. They maist that guests must remove the r shoes before they retire; that no more than four men may occupy one bed. The paragement this fainted responsibility if a quest o bleef a sleeping companion,

Councily's Tayern was almost a min when the Natchez Garden Club acquired it in 1936, restored it to its former state, and made it claim headquarters.

Airlie, home of the Ayres P. Mercial family, was erected by a Spanish grandee before 1790. Here silver gleams from massive makegany sideboards; a French thina set and pieces of rare crystal and other old glass grace the during room 14 de.

Charokey, before which American soldiers encamped when they came in 1798 to claim Natchez for the United States; Linden, with its spacious galleries, home of the Conner turby of Natchez for five generations (page 202); and a tumbled row of one-story buildings in the old contillative square, known as lawyers' Row, also belong to the Spanish period.

Not far from Natchez stands another famous early mansion—standy Springfield where Andrew Jackson courted and married his beloved Rachel.

Comord, nove the home of the Spanish of vertical also was a Soutchez landmark. But some few years ago it was destroyed by fire and now all that a left of this center of the



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Table Policettes and the transfer that the test of the transfer the test of th

of the or flower on each piece (page 201). Audaban spent several years of his early marter that has in some near Natches, teaching are and music, and doing much painting.

"Until the pilgrims came along," Mrs. Melchi or beltzhoover told me, "we in Natubez
did not realize the value of many of our
family possessions. I know when I was a get
the most remarkable thing about this set of
china to our family was the fact that It had
been sent to brance to be first, since no kilo
was available here. The fact that Audubon
had painted it made little impression."

One a number of out-of-state newspapermen were visiting Natubes. At Green Leaves they were Inspecting the Audahon service spread out on the during room table.

One of their escorts, in a moment of preoccupation, picked up one of the plates and casually tossed if acts the air, then just as casually caught it. The alarmed datector of the group told him that if he touched another piece of that priceless set, he would be forelyly exected. The plate-tesser was terrilly enharmssed

But Mrs. Beltzhoover, who had observed the lackdent without the flicker of an eyelash, comforted him and gave him to behave that the beltzhower family spent its spare time t saine Audi, but plates into the air. Natchez women are like that.

#### Against Receiled Silver Hardware.

While randling Twin Unks built on a Spanish land grant in 18.4 was being restored a few years ago one of the working a socidentally dropped a bit of deld on a piece of hardware. He this unwittingly brought to light one of the desinctive features of the old barre—locks, binges, escutcheous, a setter all painted black by a meone in the past, actually were of prefield sever.

Electricis of thoroughbreds from the Surget stables in the ante-bellum days when Natchez had is own race track, was the family home of the Admiral Aaron Stanton (Tip) Merrill, Retired. He won the Navy Cross and the Lagian of Merit for extraordinary betolsm and in tstanding services while commanding a South Parific task force in the Guarah anal and Bodgainville campaigns.

Square-columned, disnified Monmouth, where lived General John A. Quitman, Mexican War hero; Mistletoe, delightful "Mississippi Planter" house; Elgin, whose graceful galleties are hulf hidden by huge caks draped with Spanish moss; and The Briers, where Jefferson Davis wood and wed the lovely Varina Howell, are other heautiful early

19th-century plantation houses surrounding Natches.

A combination of remance, religion, and lasiness actioen account for two of the town's bisteric houses. Results and The Pursonage

#### A Parsonage for Wundering Ministers

When Peter Lattle, successful planter and financier, was in his late thirties, his friends Mr. and Mrs. Jacob Low, were stricken with yellow fever (often epidemic in early Natchea). Their 13-year-old daughter, Eliza, became his word and Peter Little was named administrator of the Low estate.

He decided to word the girl to school in Marchand, but somested that they be married just before her departure. Eliza agreed, and immediately after the ceremony she hourded a hout for New Orleans on her way to Maryland. When she returned several years later she became the mastress of Rosanie, the fine mansion her husband built for her pear the site of the old French Fort Rosalie.

The couple lived together most happly, but Mrs. Little was consumed with religious zeal. She insisted on giving bulglog to the itlnerant Methodist ministers who stopped in Natchez on their way up or down the Mississippi River, and extending to all circuit riders the hospitality and comforts of Rosabe. The ministers received hot coffee at their bed-sides in the mortling, meals at any time converient to them, books to raive, and maids to attend their wives and children if they happened to be along.

l'eter Little grew tired of these constant guests, so he built a spacifus home neres the street in which to entertain them. He called it The Larsonage.

#### Rosatic Restored by DAR

Rosalie, a Georgian mansion, has been restored by the Mississippi Daughters of the American Revolution as a national shrine Danag the War Between the States it was leadquarters for the Union general in community of the accupation for s

The larm-bings of Rosalic inch de massive caropical hods, red-flowered curpets. French china, and makegany and reseasood drawing to un furniture. The trim Parsonage has been the home of the Metcalle family of Natonez half.

for half a century

Many echoes of the War Between the States linger on in the old town. Bryons which enclose classic Ravenna and its smiling gardens became secret passageways by which residents of Natchez snuggled food to the bard pressed Confederate soldness outside the town. The bard, a sterling example of pure



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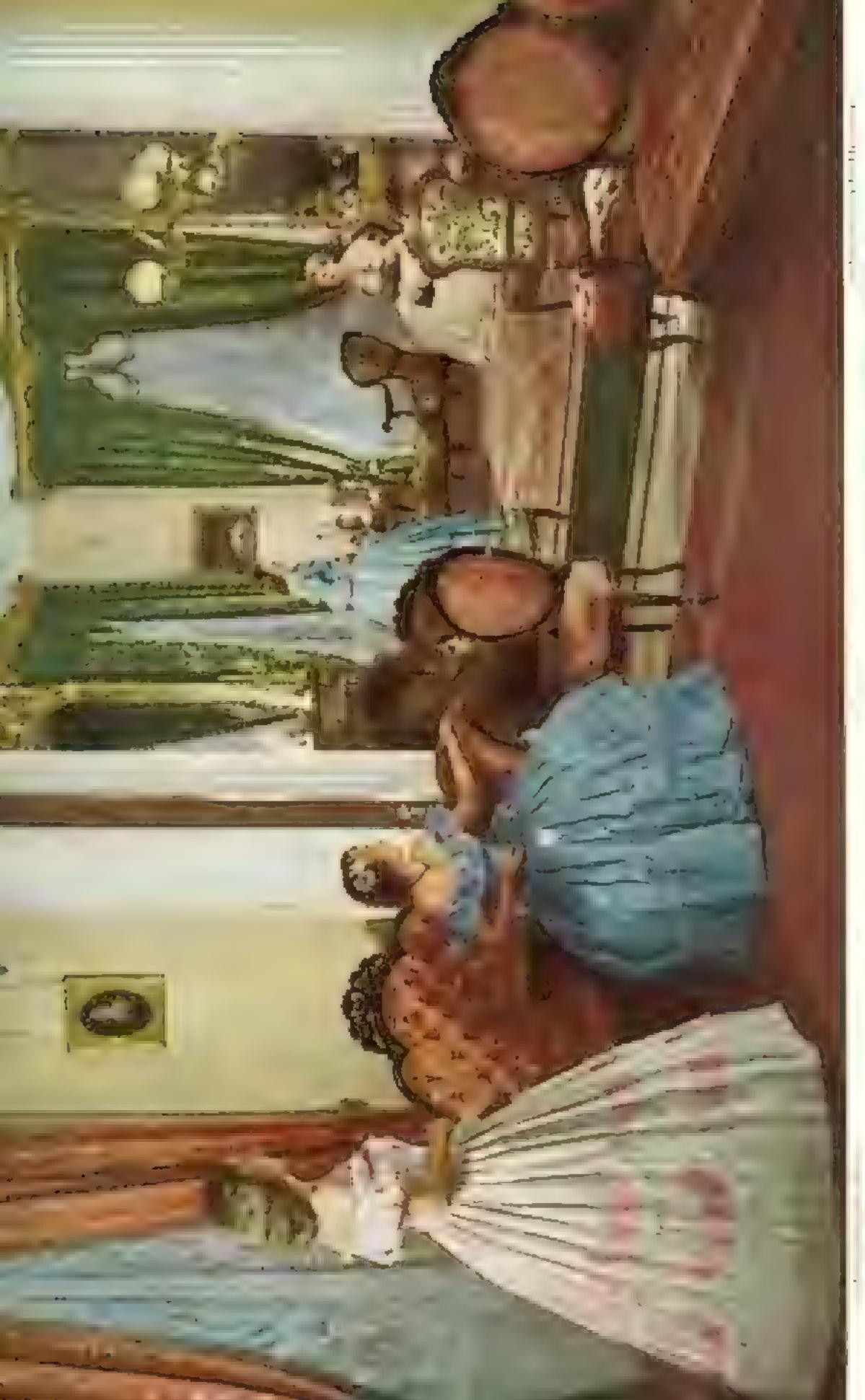
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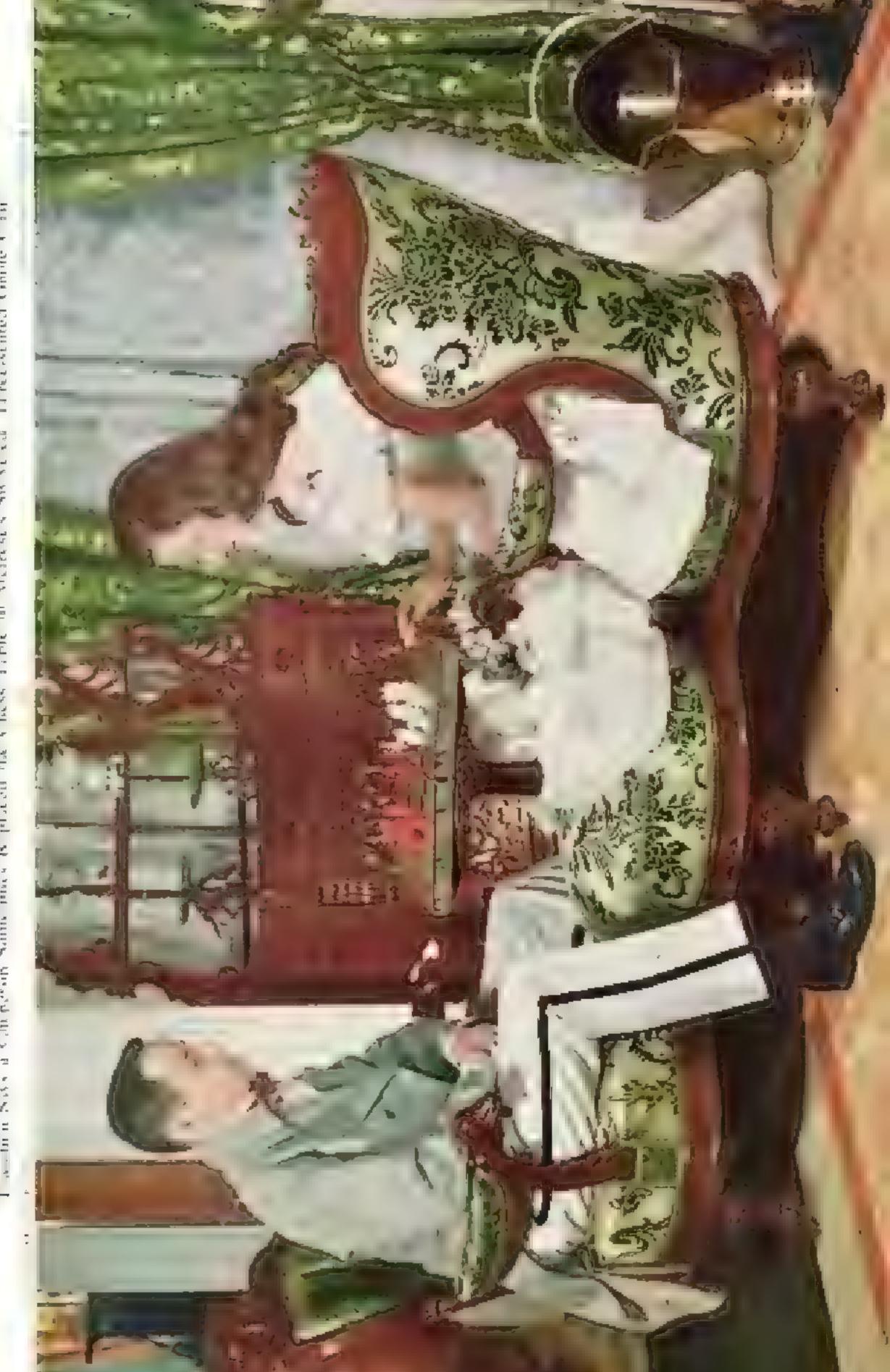


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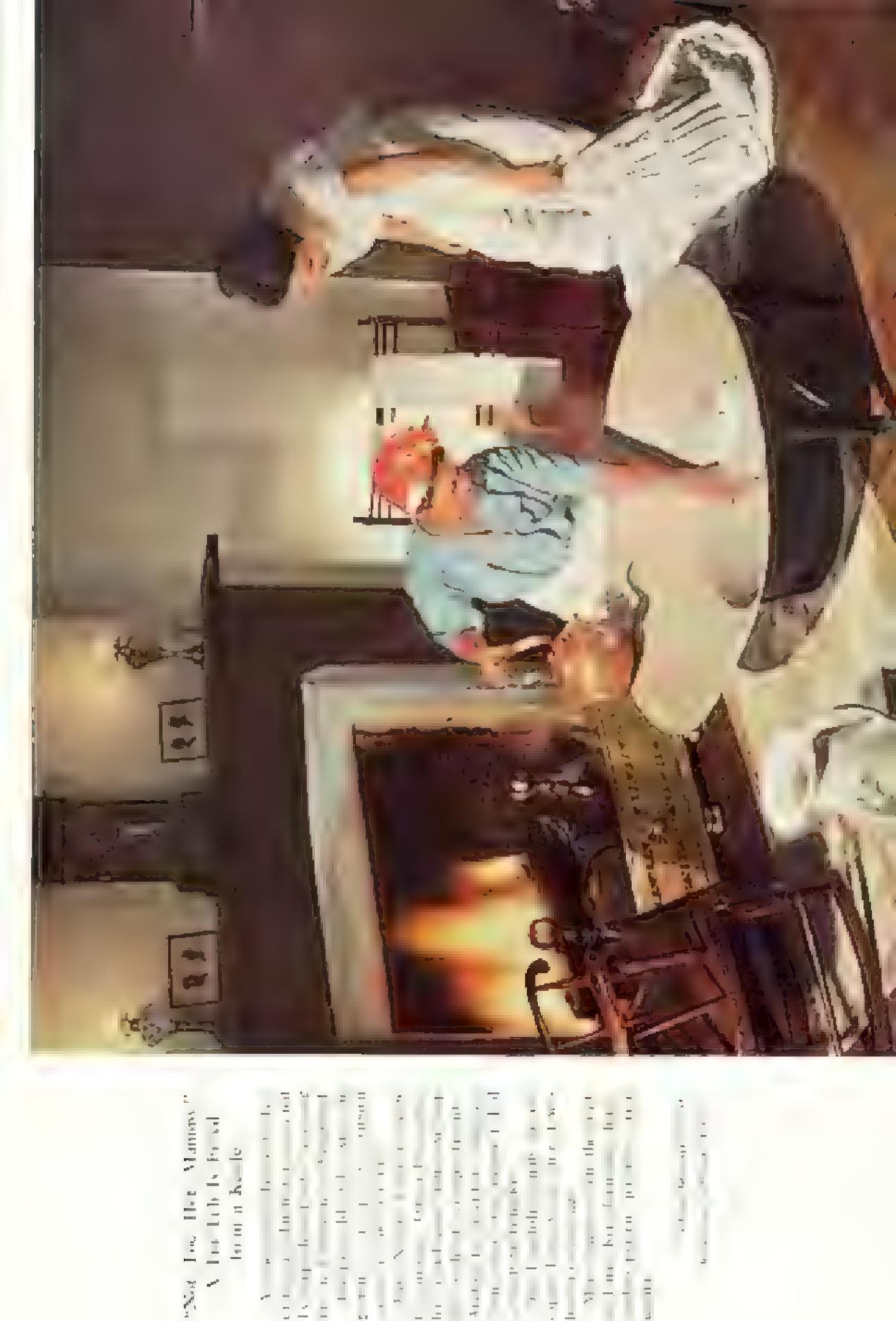


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# Cambias and Ambers Edge Mentaligades Formal Cardeny



Admin's ingenies y flammed Spir Series Serms to there in Mid-a'r

Greek architecture, surrounded by camelar, and azalca pardeas, was converted into a Federal hospital (page 184).

#### Monteigne Victim of Looters

Monteigne, classic home of Confederate General William T. Martin, suffered at the bands of troops who stabled their horses in its exquisite drawing rooms, destroyed costly familiare, and broke rare chara and crystal No sign of such ill treatment is visible in beautiful Manteigne today (pages 196 and 203).

Spacious Lansdowne, built by a slave owner of faculous wealth, preserves its original for-nisblues—a priceless or lection of museum pieces (page 199). The vast central half is 93 feet long. Ornace bronze chandellers ence were lighted by gas from the private Lansdowne gas plant—before Natchez had its own. Original rese and white hand-blacked French wallpaper graces the parior walls. Descentiblish of the original owners still bre here.

Frequent guest of St. John Edict, the builder of D Evereux, was Hearty Clay. Legend tells that once, when the Kentucky statesman was strolling on the grounds of this imposing mansion, a servant misrook bim for an introder and set a dog topon him, to the extreme embatrassociation of all concerns.

It I vereux, with its trai white columns, its wrought-iron balatry above the entrance door-way, and its setting among old, mess-festioned trees, has more than once been used by motion picture comparies as an ideal Southern plantation mansion (page 189).

Graceful Lagrarith, with its colourable of tall pullars, stands in a park of terraced Liwes—another starybook plantation setting

#### Melrose Intrigued Henry Ford

When the late Henry Ford visited Natchez, he was intrigued by the furnishings of Melmee, another mansion of the 'golden age' (pages 192, 193, and 200). In perfect preservation are the costly original furnishings. Here Mr Ford four items he had never seen before it his years of experience as a collector.

Over a mandel bangs Audubon's panoramic painting of Natchez. The naturalist had been or unissioned to do the painting, but when it was completed the prospective purchaser had died. Audubon tried in vain to sed it, and finally left it in a store when he departed from the Natchez country. The painting eventually windered to brought back to Natchez and acquired for Melense

The marsing to outdo all rither manslens in town faulty was talk by Frederick Stanton, who made his fortune during the "golden age,"

He chartered a ship to bring building materials and furnishings from abroad for Stanton Hall

The grounds, occupying a whole block, are eachised by a hand-one wrought-fron feare. The mension's flated Ctriathian columns rise in a park of huge trees (page 207). Grilles of iron roses surround the galleries.

Cellines soar to a height of 2255 feet. Drawing room and music room, thrown open, become a ballroom 72 feet ling. Arches, hand carved in Italy, span the entrance hall and drawing room doorway. Hage bronze chandeliers, each with a different design, hang in the foot rooms on the main thor. The one in the library has carved figures of French schiers at Natchez, complete with their namer and weapons.

the the vast central hall a recessed stairway rises three thatts in eliptical curves. Elaborately carved white Carrara marble mantels transfer the freplaces.

But Stanton Hall was too big. A year after it was completed, in 1858, Stanton died. Then came the War Between the States, and its afternath of deflation. Valued at \$550,000, the home changed hands in 1870 for \$7,000. Later it was sold again for less than the cost of the wrought-iron lence which surrounded its grounds. In 1940 the Pikelinage Garden Club acquired the property at a headquarters and a club restoration project.

#### Split Pants Interrupt Tour

Although history and trachtion surround the people of Natchez, their daily problems are studied to those everywhere clse. For example:

The morning Mrs. William beltas accompanied me to several homes, we halted our tour about moon to drive to the grade school, pick up her son Churles, aged 9, take him tome, then find a bate of lunch.

As we drew up, Charles came running toward us, his sweater pulsed about his wasse and banging downward like a skirt. Refore his mother could introduce us, he exclaimed:

\*Mother, something terrible happened.'
"What was that, Charles?" Mrs Feltus
usked, prepared for anything.

"I split the sent of my pants!"

So we interrupted our schedule while Mrs. Feltus saw to it that Charles was properly clothed for the alternoon session.

Then there was the afternoon when Mrs Bernard Wood was piloting one about in the new family our. We emerged from one house to discover that another car had backed lab hers and had left a big dept in a fender. Mrs. Wood was preoccupied for the rest of the tour, but at home that evening she found, to her



From Countilla's Tayern Old Gives Waved Delivers to Species Refer

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#### "Hattle of the Hoop Sking"

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#### Artisans Answer Call to Colors

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### Oasis-hopping in the Sahara

BY MAYNERS OWEN WITHIMS

With Illustrations from Photographs by the Author

BRIGHT FALLS for I. claberate and the clocks at Musseille as we bounded a ship that would take us from a Europe blankete I in show and suffering.

For many families of motor trakkers, off on a rocky sund to adventure, this was the larest before the sterile, sunny Sahara sands.

Across the once impassable desert scores of emigrants from crowded Rettain were larching in war-wors army trucks toward new homes in factors. South Africa. These modern pioneers were traveling across France and the entire length of Africa—on overland trip of some 6 600 miles.

One truck after another was lifted into the bold of the Ville d Oran, back in service after a heroic war career as an auxiliary off Norway. Race horses were ssung aboard in their traveling stalls. The National Geographic Society colors on my car attrac ed attention.

#### Off for Alguers- and Beyond

As my wife and I made port at Algiers (Alger) after a 22-hot r crossing, a cold delegte masked the skeleton-white Kasha, nemine halside quatter in the heart of the Algerian capital (page 225).

In swank slups of this "Paris of North Africa" loxury goods were displayed to tempt the long-gowned Algorian or disquise a lack of staples. Skysar opers were dwarfed by confixing bills. In the gardens of Mustaplia Supérieur, the newer aristocratic quarter, Easter blies uncurled their creamy comucopias.

One day at dawn a shiny aluminum-colored lus, labeled with exotic names, came to carry us off far two weeks of onsis-hopping across the desert. With a desert-wise criver at the wheel, this would be safer than drawing The Society's car.

As the muraing sun broke through the clouds, the hills behind Algiers were billiant with verdure and red carth. Along the hill-tops, tinted villas at natted comfortably above tot helds. My los and horses placed furrows between the close-trimmed vineyar.

Behind us lay the Medierriman's blue, About spread the rich plain of the Mitid, a where vineyards slope down to green-tuited orange groves. From the forthe soil of this metime sea their comes a profusion of early vegetables. Hage truckloads of hand-washed carrots toated along toward the dorks and

Landon's vegetable market at Covent Garden

After passing through mass of fertile fields transformed from malarial swamps, we came to floofarile, with his proud monument to a buildred years of French colonial agriculture (page 211).

Near Blida descendants of immigrants from the old Spanish province of Andalasia had district water to the fields by methods dating back to Babylon, when agriculture was young.

Our bus now bearled toward the misty slopes of the chilly Atlas. Leaving the rich and similar plant, it corkscrowed up the Gorges de la Chiffa (nup, page 222).

#### Monkeys Answer Chaw Call

As we stropped to stretch our less of a road-side restriction, an Agerican brat a current on a pan. Down from the rocks for food come monkey after monkey. One of our companions photographed "beauty and the least" as his wire rifered a monkey a cube of strictly tailound sugar. American GH's chased the similars up the rocky cliffs thage 217).

Hardling a 3,300-foot pass in cold fog, we maked down toward Medéa, whose climate and fract trees are like those of Europe. Medéa's beady white wine provided tough competition for French wine geomers before with was so scarce that it had to be rationed.

thy harchtime, at herrogaghin, we had covered less than a third of the tay's itherary. Two ranges of the Atlas Mountains already separated us from the Mediterranean. The rain and mist were gone. Carnels and goals serrounded our cars. We were in another work.

Away to the south were the Mountains of the Quied Nail, professional dancing beaaties who used to drape their necks with gold. Now they have discovered that a good apartment house is a better-paving investment than bright bandles (P are XVI).

Farther west is the Diebel Amour. Its name comes not from "love" but in mathe Beni Amour trile.

To the descendants of Artar, hero of Arab poetre, their rocky bills, blessed with little foundains, seem desert set fairvlands,

After 200 miles, the railway quits at Djelfa. Trucks take over much of the trains formerly monopolized by the dromedary.

Long after dark, with a real chill in the dry air, we stopped at Laghanat, beneath the



Desert Herbs and Fagers Die Christin's Market Post Below by Hilly at Town

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At the original me such tight to give the ballot that hadren cores of at all sold sound track. Its where its congruenBefton, explained: "My pal broke a spring and went back. But we haven t got too much

petrol, so we're walting for him,"

Here our is tilled with admiration for those absternious desert men who make a living from axtrem wastes where lesser men would die. The cheery smile of a lone laborer repairing the trail seems heroic,

## The Mozabites Are Mohammedan Escretics

Topping a rocky ridge, we looked down apon patchwork squares of vivid green. We had arrived at iderriance, monument to the adustry of the Mashis, or Mazabites, Motomorean bereties who have won a proud position in the Moslem world (Plate VII).

Nearly twelve centuries aro, a Perstan religious leader had his capital in a pleasant region between mountain and steppe at Tiaret. His Maati followers were known to the shores

of Tripuli.

When a few thousand of them emigrated from Onarght to Ghardaia, they bored through limestone to find water and so made it one of the most populous and prosperous of

Saharan eases (Plate I),

the tail towers of high-tension lines carrying electricity to Chardaia. Here we still saw dookeys, plodding at the ends of ropes, harding from wells the bloated goatskins which from time immensorial have made the desert bloom. But the squeal of the water hoists is now giving way to the self whir of a powerful turbine pump raide by Layne & Bowler, Int., in Memphis, Tennessee.

Emeantipated thus from painful digging and the ceaseless come-and-go of the water l'it. Made que to touch we take in the employing swift games of checkers or slapping

lows aluminum deminors (Plate X).

Around the main market place male seamstresses sew the long govers gracefully worn

by Algerian men (page 210).

After a length of concrous -of which there are us many varieties as there are of curry—we concert the parrow, mud-walled streets, laughing eyed girls in koducarome-teasing tolors dushed for cover.

Our second day in Ghardain we watched an Arab wedding procession. Dancing ment randshed long muzzle-londers; fired volleys at the trugh feet of apathetic camels. I wo soft-face t camels of the caracan carried tent-like liners.

From the of these proble burers rackenges protruded a yes thful ankle circled in heavy silver and a small foot in a scarlet sandal.

The Arab and Mozabite crowd poured down an empty torrent bed and stretched their

bright sibbon of color along the inway bills. We photographers standfed along, shooting as we ran (Plates II and III).

Dusty and sweaty, we rejoined our friends at the boly city of Beni Isguen, within whose walls no than may smake pur any fereigner

pass the night.

Nowhere along our toute did we find such fine specimens of mule dignity. Four tren out

of ten were strikingly bandsome.

As twilight comes on, these incustricus citizens, spotlessly garbed, squat in the town square white smalling salesmen carry on an ruction.

The bearded Maabi does not got a market. Like a comfortable American, reading his ads, he sits still and lets the market come to him No patter talk disturbs the hargaining. The auctioneer parades his process or tawdry stuffs back and forth, picking up a had here and there until the deal is closed.

As we climbed to Beni Issuen's high tower, dark eyes of women and girls peered over the edges of the mud roafs. From the tower we looked a wn across a chaotic tumble of rocks to the Moznante valages and broad expanses.

of date palms on the valley floor.

Honkeys water the bullious but stringy roots of the palms. As they trend the slanting runways, the length of the rope indicates the height of the water in the well.

When the far end of the path is blocked of and the well ropes are shutened, one knows there is water for all and good crops

are assured (Plate VI).

At dawn on our fourth day we collected new evidence on the question, "What is desert?" Climbing out of Chardam's fruitful valley, we worked across the hathsome Chebka. Gradually rock gave way to gravel and an occasional stretch of sand

In one such stretch the young Englishspeaking driver of a heavily loaded truck
was repairing a tire. The crowd of longgowned natives had pited off, storied a tire,
and were having small classes of mint ten
sticky-sweet but refreshing.

After the tire pumpers had solled away and we started to follow suit, one of our back

wheek spun in the sand,

# Descrit Bus Carries Emergency Tracks

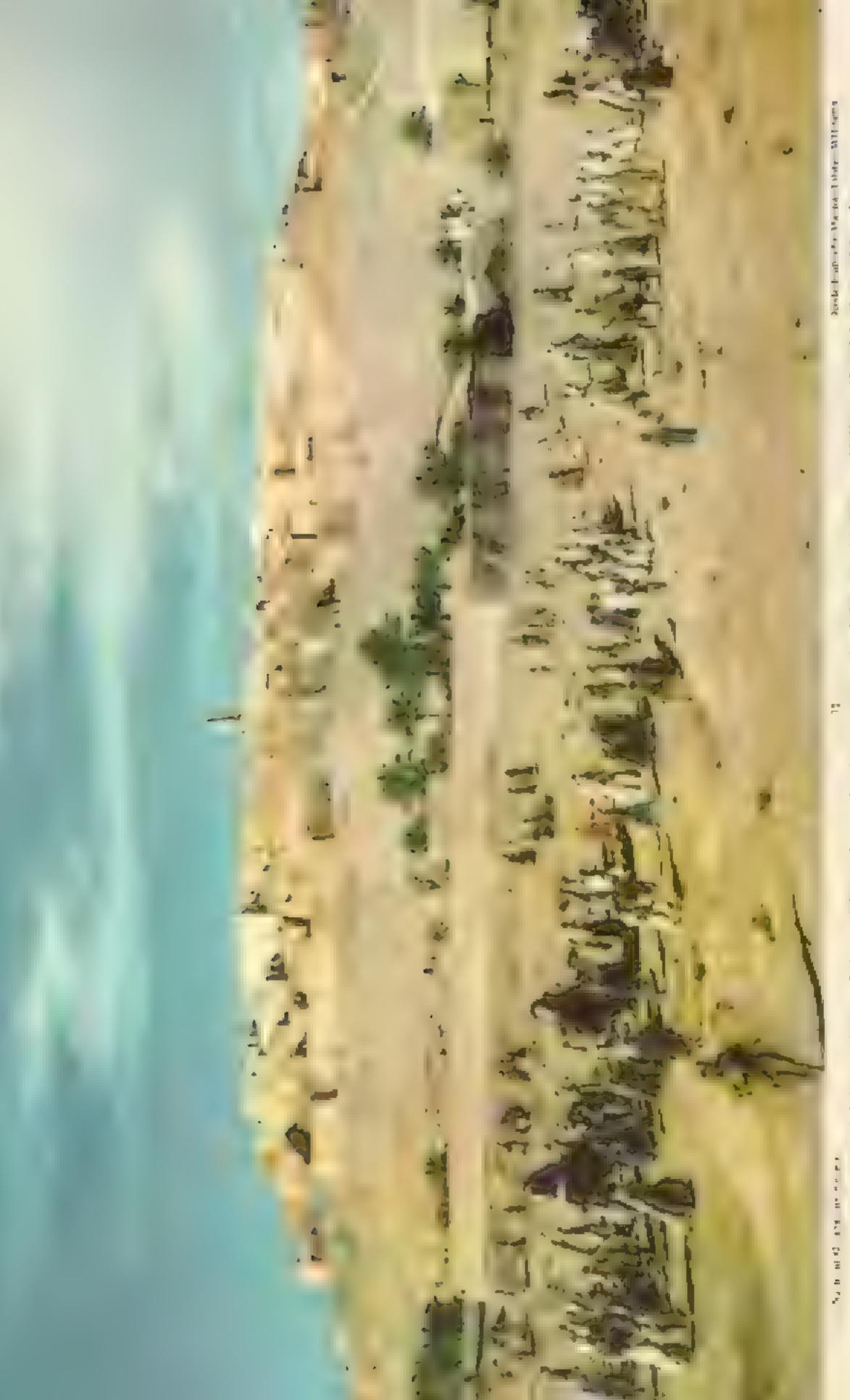
Extending across our bumpers we carried two stout pipes, seven or eight feet long. When the tires bog down in sand, one of these tubes is laid in front of each rear wheel (page 221)

First, the double tires kirk the tube deep into the stad. Then the vehicle moves, per-

haps one food, perhaps four



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An Arab Bridal Party Pours Like a blood down the Dry Stream Bed Furing Melika, a Hill up Crack of the Mozabites Saturday and chicago towners have taken mans, by - K Ho h Par Mar 1 Worth. There were a the transfer of the flam



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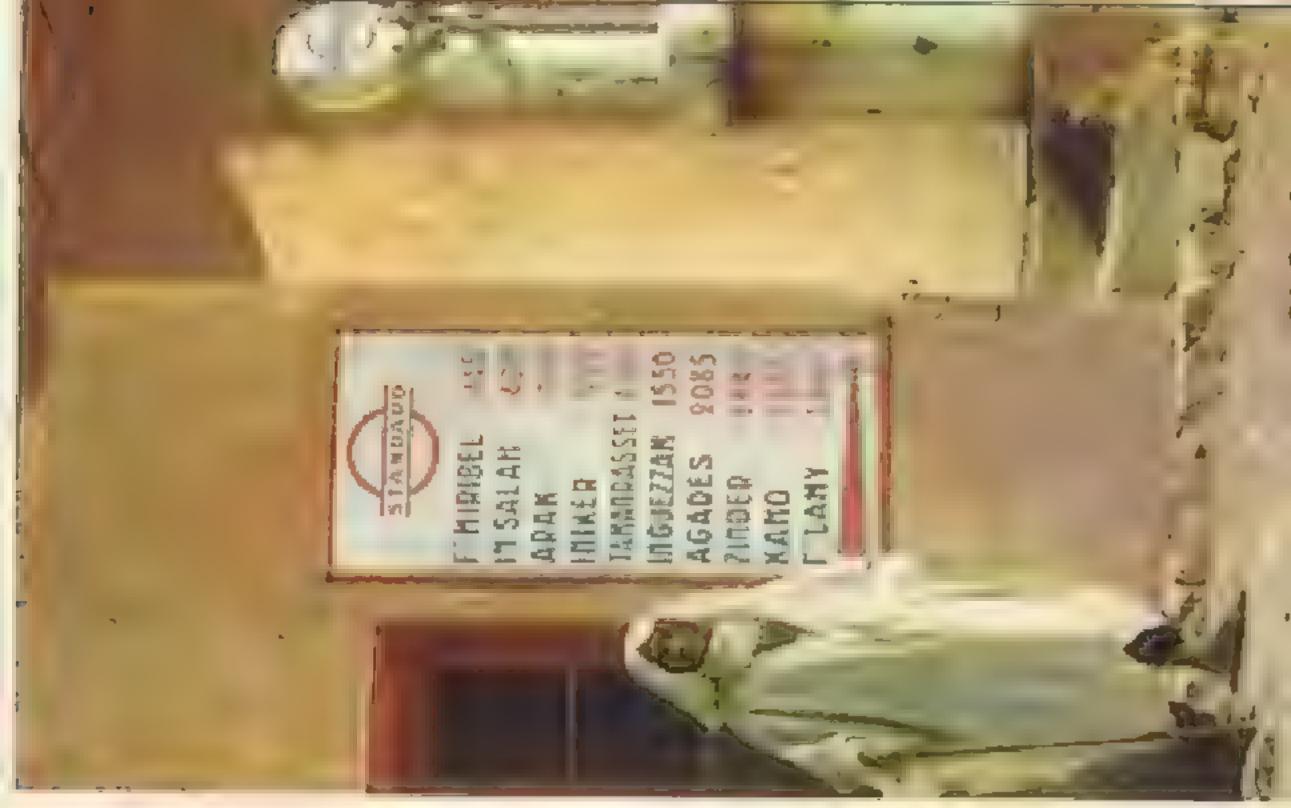
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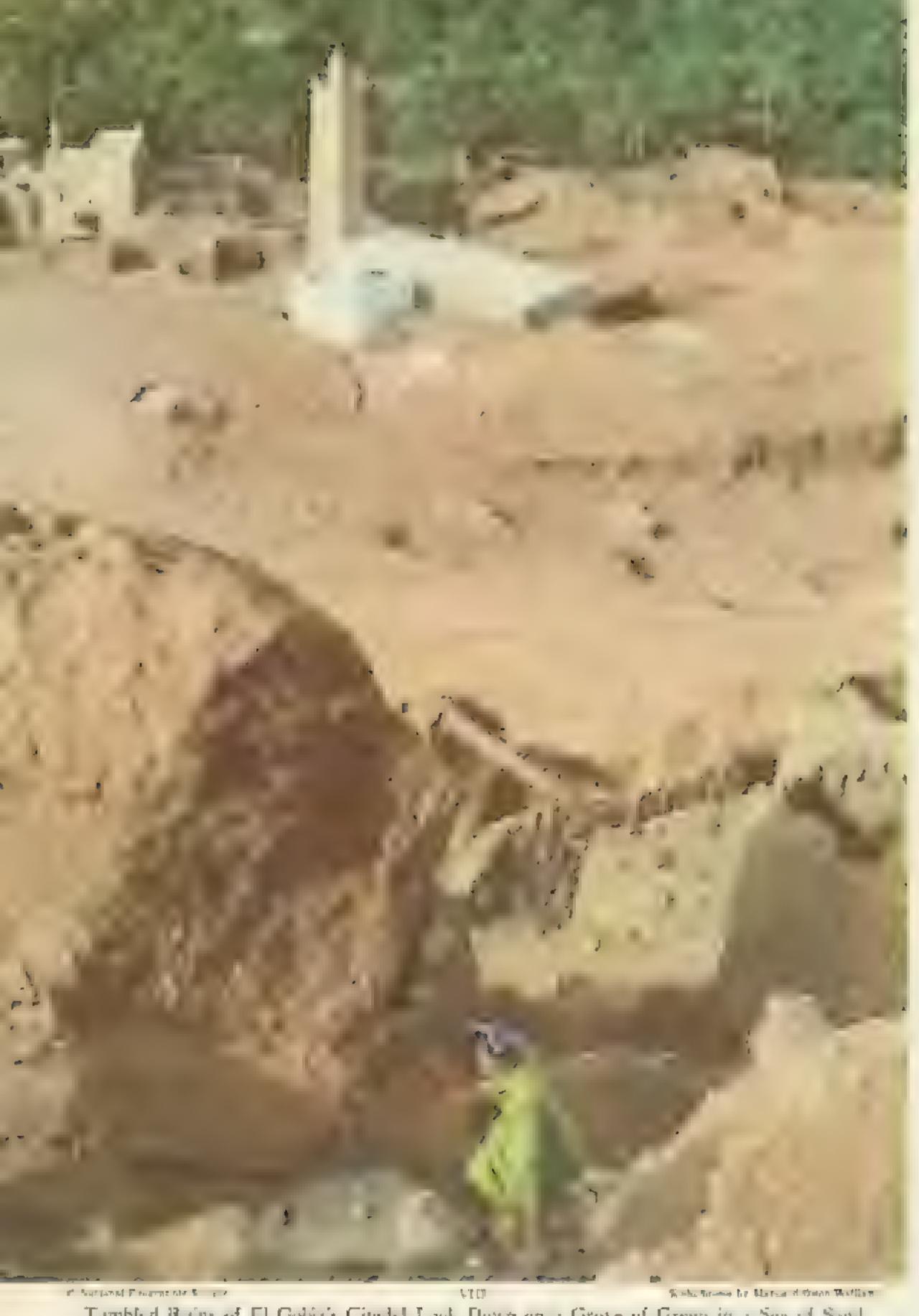
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Tambled Rains of Fl Goléa's Citudel Look Down on a Grove of Green in a Sen of Sand

This time, at the very first trial, we discovered why the heavy bus, with its 90 horse-power (American rating) motor, had begged down. While we had sympathized with the truck driver, many miles from the nearest power-driven tire pump, one of our own tites lead been flat (Plate IV).

Our one Arab passenger threw uside his beavy burnouse and went to work. At lunch that day he greatly improved our picule ment by staring his own broad sheets of Arab bread.

Getting out of the sand wallow was not simple. When the bus was jacked up and the panetured tire lifted from its deep depression, the sand flowed out from under the lack, the lass settled down for a long rest and passengers began to tell him delightful it is to travel by plane.

Asi le from jack and tire tools, the chief utensil for desert work is a short-handled, sand-polished hoe, more than a foot wide. Wielding this sand scoop was Mharak, an ebon chauffear a assistant, whose light-skinned wife back home in El Golea had just given

birth to a bally buy.

I'm a black son of the White Fathers,' builded our joby blacksmoor, and a better testimonial to the character building of self-sacrificing missionaries would be lared to find.

Not once did Nethert Ballin, our Algerian chauften, raise his voice. For four hours he and his dark-skinned helper crawled and dark twisted the unruly tall of the heavy jack, or swept back the sand sea with the ineffectual hoe.

It was long after dark when we colled into El Galea. But Micarak, nicknamed "Ali Baha" in cordial admiration, had won his spurs. However tired and hungry, al. of us were delighted to stop long enough for this home-town boy to see his new haby and proud wife.

# Modern Covered Wagons Roll On

Outside the oasis we had passed British lowies from whose dark interiors towneaded children perced into the African plant. Before dinner was over they lambered in another long day behind them in their trek toward South Africa

Stout fellows, these tired refugees slept a few hours in their stuffy cars, then showed on. Theirs was the same fixity of purpose that carried our forelathers in covered wagons a took a continent.

We spent three days in El Goléa, all of whose sights could have been viewed in one cool morning. Yet I do not fecall a duli moment (Plates VIII and IX).

I'wee a day a long gowned Chaomba goldelail us about on lei-crely sanaters whose attractions might be the pink of fault blossoms against a functial cypross bedge, or the splash of crystal water for pand-walled gardens where lemon and mange glowe.

On the side of El Goléa stretches a laundless nimicid, its only improvements a wind suck, fueling strip, and tumble-siewa ware-

house drifted with sand,

On the other side rises the deserted hill town. The palm-truth beams of its much brick houses have tumbed in; its cruminled cwellings thatter the narrow lanes. But from the wide platform at its top we enjoyed a splendid patture of the life-g ving much that 15 arrestan wells can work in an otherwise sterile expanse.

Only 26 years and the Sahara had never been crossed by car. Now a trickle of motor traffic flows lack and forth across the disert from October to April. On the wall of a "last chame" filling station pear our hotel were last of provocative names (Plate V)

As casually as if the routes led to Bostor or Versadies, we read such names as Fort Lamy or Tomboucton, the land of a legendary caseswary whose desire to "cut a missionury, blood and bones and bymnbook too," was part of our childish love about "cannibal land."

We yearned to contains our travels to the Sudan. But this time El Golea was as far as we were to buttney toward the Southern Cross.

Looking buck, we realize how for removed ill Goléan customs are from our normal life for example, we remember a dusky courtesan pouring tea, with a runtich to pass it.

As we stroked back from a jaset, she stood at her daneway, showing fine teeth in a prolessionally pleasant smile. Since Saharan picture subjects are usually to be, my fellow photographer wished to photograph her.

"All right," she said, including our whole party in the invitation, "drop in this afternoon

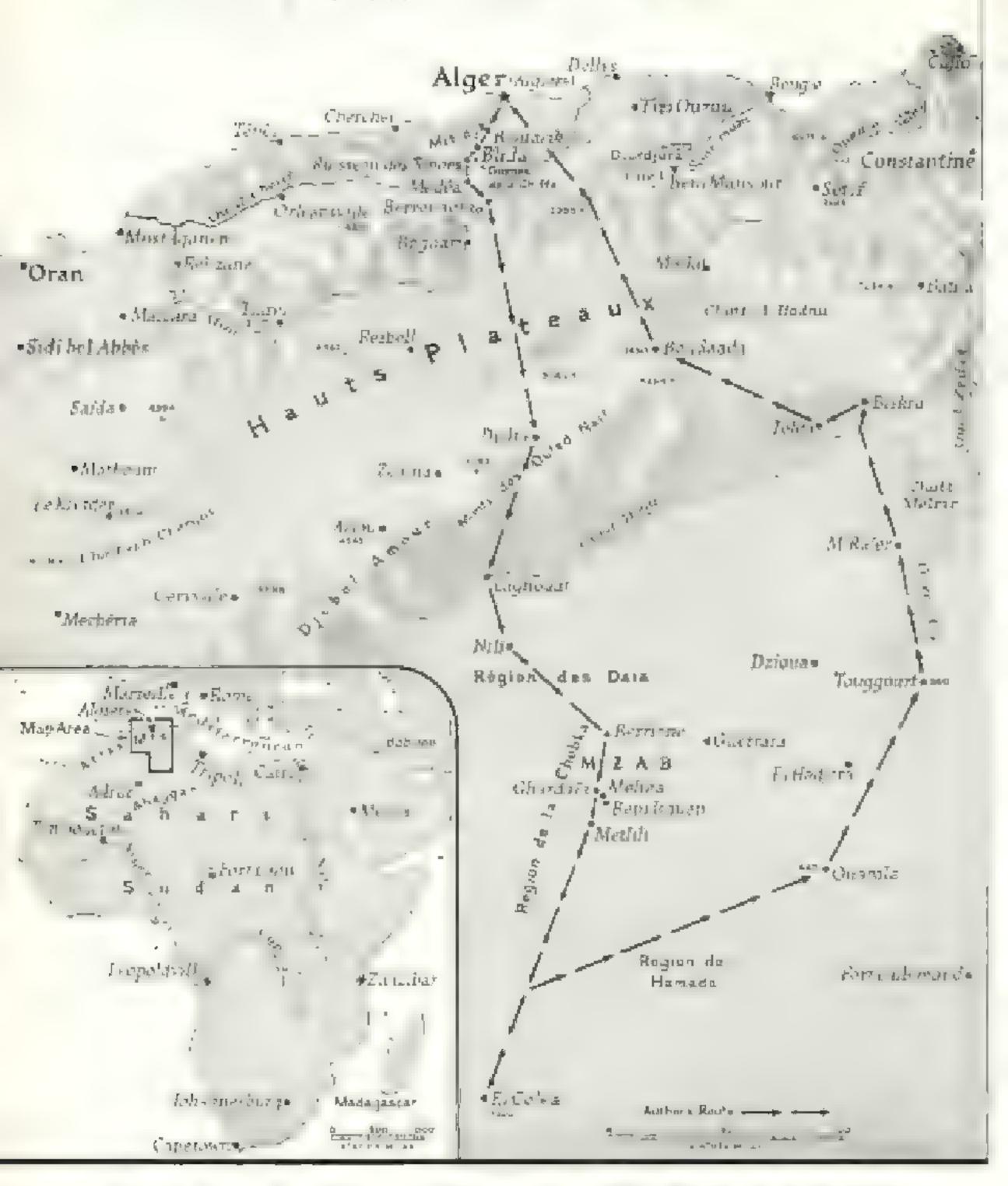
for tea."

Seated on bright rugs within the mod-walled foom, we watched her pour a lavish stream of precious sugar into the pot, mining the beverage by pouring it back and forth. Are matic mint was added at the last moment before the wrinkled cunnch, arrayed in feminine facery, passed the drinks with self-conscious damity.

Never for a moment did she lose her selfprecession or charm," controlled the French, Algerian, and American holles of our party,

\* See ' Conquest of the Sakara by the Automoulle " National Gricomenic Magazing, January, 1924

# MEDITERRANEAN SEA



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### Spirmual Usses in the Desert

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From While Saving Largard to "Alt Balta's" Guests, Chaumba Womendolk Keep Their I reces Busy at Homely Tasses

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The stable of the vicinity of the stable of the desert.

On the block over De Foucaula's grave are

the words, "I want to possel: he to get all my life." And precible he and our to when a fanatic modern, taken is by the estimate.

# Desert Dongers Include Drowning!

We headed parth again along a too. familiar trail. Here and there it is so plant marked and so well paved that it might be taked a road that at the sort the land hard at the sort the land track gives was to a long the land to the sort the sort of where each devent a soft spot in the sand

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# Tarred Rends Tunning the Sahara

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for the United States. Probably only one take in five needs actual paving, but improve-munt of the bul strendes would facilitate through travel.

From To guourt my former chiefs, Hanrdt and Audonia-Dubreuil, started on December 17, 1922, for their first crossing of the Sahara by car, arriving at Tombountou on January 7, 1924.

Inching our way across Asia nine years later, we had often compared the great wastes of Asia with those of Africa. Not all agree upon what is the world's largest cesert. Tiest choice is the Sahura, which covers nearly half of the world's second largest continent; but one is and rank rulge, mountain and sait lake political to undary and traditional route divide the Sahura's tast barren areas. Central Asia's combined wastelands may rival the Sahura. None, however, has so owe-inspiring a name.

Throughout the trip we found the hetels better than we had boped. But our welcome

to Tonggourt trail the cake.

The names of our passengers had been phoned abead, and someone at Touggourt had consected my name with a Citrorn expedition. As we swang into the gardens of the Hotel Transatlant rue, the Stars and Stripes and the Belgian and French tricklors waved a greeting.

Suddenly I realized that the American flag, so far from home, was honoring a National Geographic Society reporter and his wife. Our blg room and bath somehow assumed palatial propertions, and the table around which we are, drank, and were merry was a

testal bound Indeed,

In the labby were some giant specimens of the transper creatals known as "roses of the does to be a lab soft petals, countless keen-edged scallegs form into petrified floud bouquets we gling 50 pounds apiece.

Bumping north toward Biskra, we came to a 1,000-foot radway bridge across the Djedi. I a rocky river bed drafts a tremendous area and Is subject to infrequent floods which sweep

it like the Hargehow hore.

So respected was the motor trail that we almost looged down, close to the term's courts, take track, and gambling casino of Biskan. Tires sawled at gears, and ope of our companious pasttered a Galic equivalent of There oughts be a law!

According to geologists, the low way we had followed from Touggourt was once a river valuey, comparable with that of the Nie or Niger. Most of the water has gone underground. To this subsermoun Oued R'ir the French have sunk handreds of artesian we k. These water millions of palm trees, newcomers.

the white men and dromedaties, to these timewasted lands.

Three distinct types of dates are found in Hiskin's market place: dry yell or ones, hard as acorns, in big goat hair sacks; so-called "greasy dates," sewed into goatskins and used for soapensking; and the Deglet Noor, transparent as number even when flattened into

neat boxes or sealed in cellophane.

For side, too, are bunches of male date blocours, a spring of which is fied in each bunch of female flowers; and piles of date piles so huge that one wonders at the block, so I, san, and water that will be needed before mature trees, grown from such to thes, spread their shade and produce their boney-sweet trop,

# Algiera Seema Another World

Following the Numidian traits known to the solders of Augustus when Algeria was the grandry and oil cruet of Rome's golden age, we threaded a narrow gorge and looked down on the town and ousis of Hou Sauda, within easy motoring distance of Algiers.

When mists hang acary over Algiers' summer palace or cold winds sweep on the capital from the north, fortunate folk hurdle the mount tine and by Boa Saada's supshine souther their souls (Plates XII-XIII and XV).

Here the breach painter, Etienne Dinet, and his pattner, Simon ben thrahlm, found models among the dark-eyed women of the oasis. Here their gay states shake gilded stanachers in dances that there hack to Salame. Here, before the travelers go back to dask and kitchen, they complete their desert fling by riding contemptations camels along the golden dames.

On the first lap of the return into another world, nod be uses gave way to red-tiled roofs. Across the rolling countryside, farmers spring-towed and frul, trees spread their petals to the cool and burn'd breeze. Near a mountain pass a splend d pine grove, planted as a memorial to the dead of World War I, spread its evergreen mantle. One a again water came from dripping clouds, not watersking.

To the northeast the snawy Directions marked the sea. By night we would be in Algiers, again aware of clothes, beauty shops, bo ds, the day's news, and letters from home.

With regret, mingled with furtive relief, we realized our outsis-in pping rings were over. From our hotel halcony we looked north along tip-tilted Algiers, glittering with electric lights. Out in the hardon a ship's whistle blew. Four hours away by air, Paris shivered. Back in the desert, camels stretched reptilian necks and burbled to the to up of syn-baked sames.



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# ↑ Buttles and Cattle Horns Cap the Adobe Spires of a Meseum in El Golés

Here Commondant E M. Augueras, a Frenchique famed for his bahara explorations, kept a private mu seum and son. His trophics, carefully guarded provident on display. This would rooting it of Sudanese design

# \* As Evening's Shadows Lengthen, Camela Break the Day's Thirst at El Golés

At that a document progressive horizonthemyta have crilled it from flowing artegion with. This excess water drains beyond the paint graves. It is so bracket that it has encrusted the banks with maneral sales.





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# \* No Inspector in Opergla Checks the Batcher Who Weight In a Few Pites

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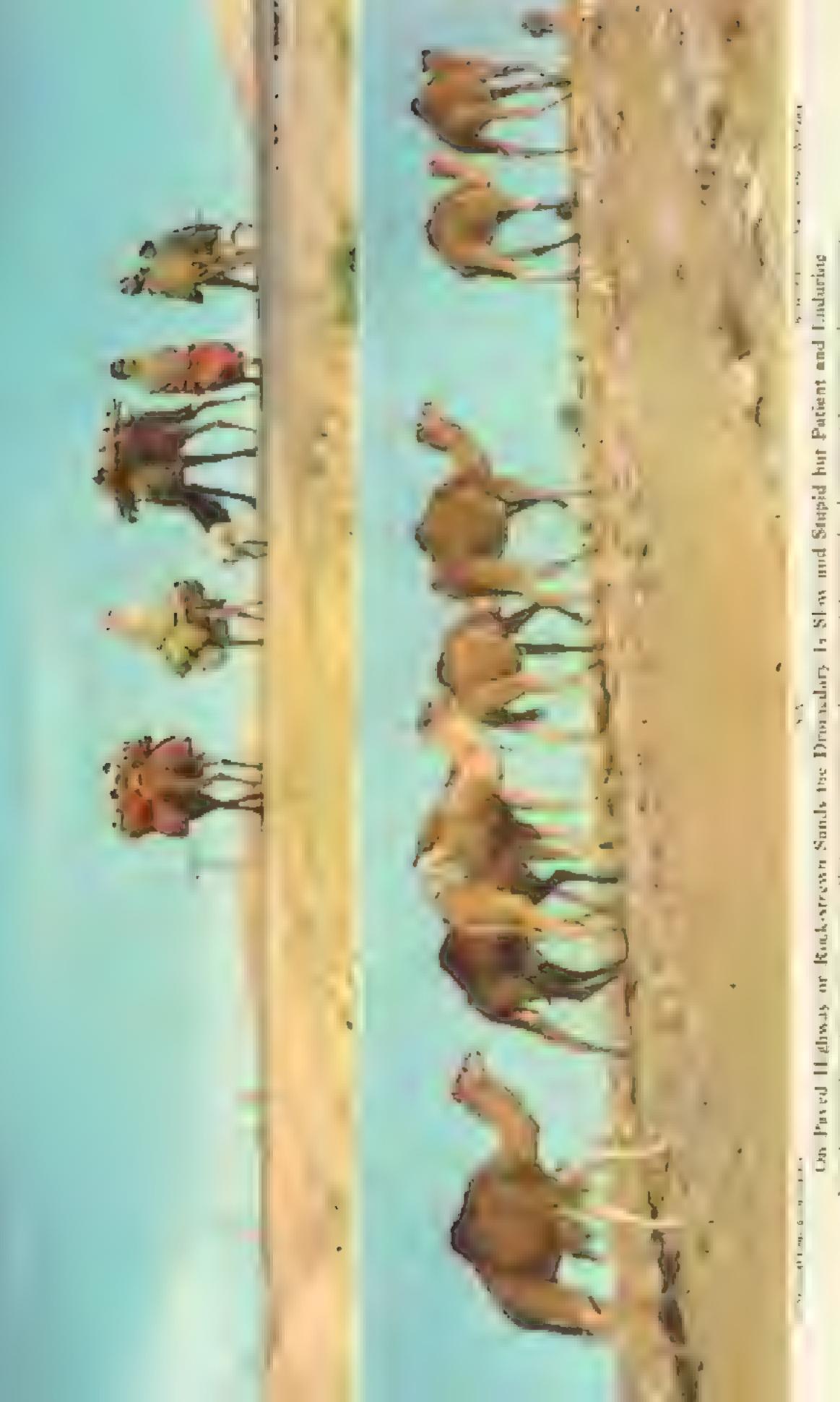
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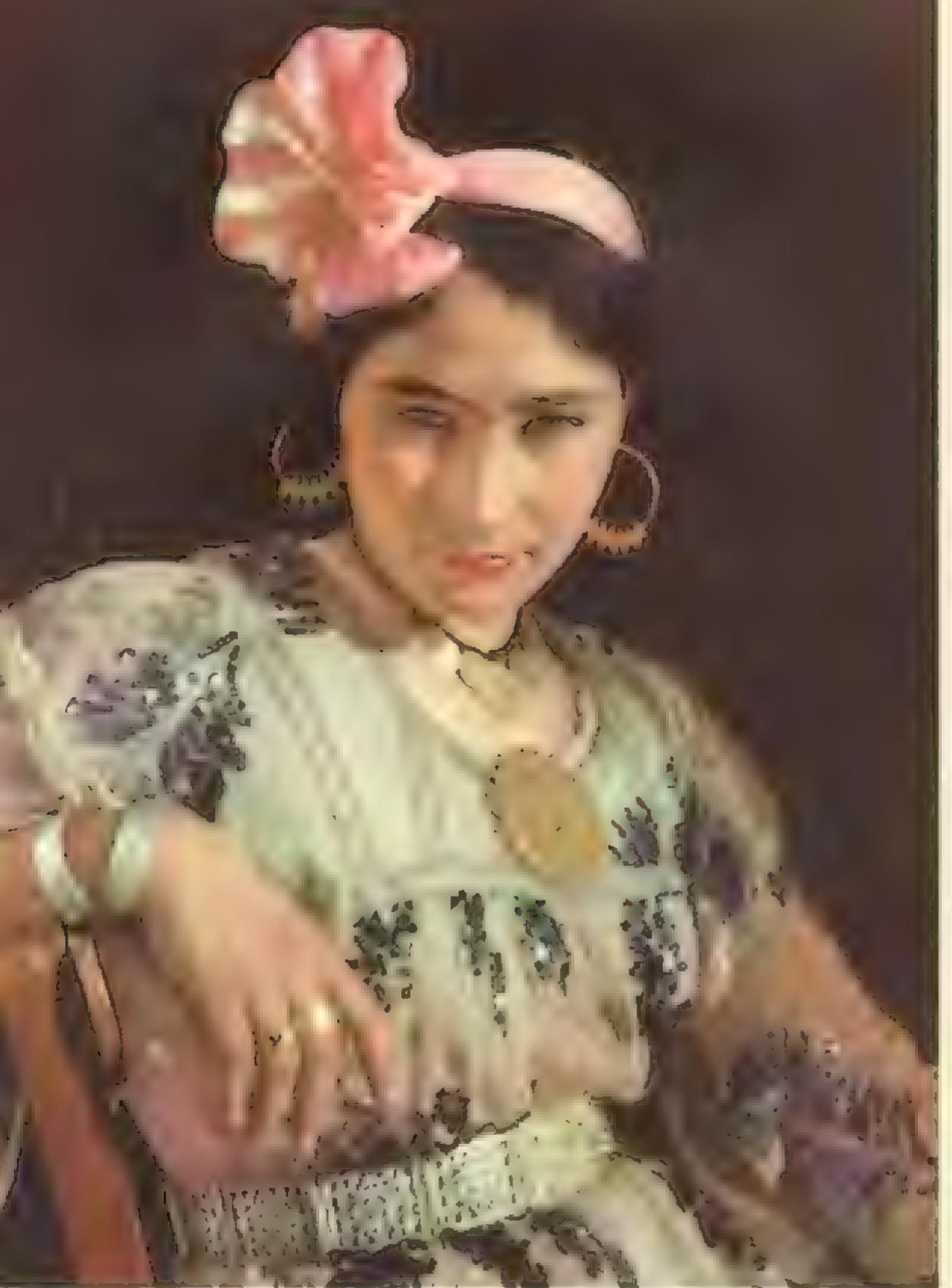
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# Sea Fever

# By John E. Schultz

If ALL, started with rereading the poem Set I get a law sorkling and the arrive air a moonlet Queto night.

"I must go down to the seas again, to the

lonely sea and the sky. . . . . " \*

John Maschell's haunting lines and the beauty of three snow-capped peaks of the Amies, gammering like ghosts on the botizon, made an irresistible call to adventure.

My family had lived in Ecuador for several years, and in the spring of 1947 I had been there for some time on a visit. I intended to return to the University of Chicago for the fall quarter, but the summer was open for travel. It didn't take me long to decide to go "down to the seas again." In my case, though, it wasn't "again," for I knew fittle of the regan.

It took several days to arrange passports and gather equipment. I had no plan except to start eastward from Quito, the capital of Ecuador, and somehow arrive in Chango in time for school.

On May 11, 1947, to be exact, I started wilking over the Andes. A friendly U. S. Army seignant had given me a ride to the end of the road (page 239). My equipment consisted of an old double-barreled shotgun, a 50-pound pack, a few charts, a compass, some sandwiches for the first day, \$21 in Ecuadorian money—and a wealth of misconceptions about what was to come.

# Over the Ander by Mule Trail

The first few days over a rough, moddy toule trail and up through a 13,000-foot pass were pretty discouraging, although the Indians were freezely and I had no trouble larying food.

A week from home and some 130 miles away, my feet were taw; but I was over the worst of it and on the headwaters of a tributary of the Amazon (Amazonas) called the Rio Napo. The Napo clees in the Andes and thows through the jungles of Ecuador down into Peru, where it joins the Amazon, the 'mother of waters," some 50 miles below the town of Iquitos (map, page 241).

At the head of the little-inhabited Napo I bought a slim degout cance from a native for 50 sucres, approximately 54.20 at the rate of exchange at the time. Sixteen feet long and as many buthes wide, the craft would

lura over al à stern ghince,

Armed with a broad oval puddle and mental piddures of the way Canadian voyageurs project

their curoes. I began to learn to paddie in the first hundred miles or so of rapids. Miraculausly my unstable craft fildn't capsize, but I lost all my remantic ideas about northwoodsmen and came to use the short, chap, y stroke of the patives.

After a few days, river travel became easier as my part ling muscles toughened and I

learned to handle the canon.

In Extuador the Napu flows through the homeland of some primitive Indians called owcus (meaning "enemy" or "rebellious"), who are considerably feared by their neighbors. In Quito I had beard stories of white men being killed by the nucas. However, I with t even see one, nor was I favored with a spear flung from a riverbank."

The natives, with whom I spent all my nights and whose food I shared, were unformly friendly and hospitable, as indeed was everyone during the entire river journey.

# Monkey Meat Preferred to Parrot

by the time it enters Peru the Napo has lever rapids, is broader, and runs more leisautely. Once in Peru I Legan to learn many trings about the jurgle and its people. Going it in it for the left the suck to be also draf-like quietness of shady forests, I shot my first morkey and found that I much preferred mankey meat to that of parrot.

Most charts are inther vegue about the Napo, but, by a rough estimate, I had walked and paddice, nearly a thousand miles when I arrived at Equitos, Peru, with my \$21 capital almost gone (page 246). I worked there for five weeks as a mechanic to earn the necessary

funds to continue the voyage.

Equitors is as far up the Amazon † as oceancoing vessels can travel. Some 2,300 miles from the ocean, it is even visited, during high

water, by 7,000-ton cargo chips.

Christish enough, must beavy cargo sent from Lina, on the Pacific coast of Pera, to Iquitos, east of the Andes, is transported by water. Freight goes by ship up the west chast of South America, through the Panama Canal, down past Venezuela to Brazil, and 2,300 sailes up the Amazon to Iquitos. It is cheaper

\*From John Massheid: The Story of a Roundboard Community in Mannathan and and used with their permission.

"Amount. Father of Waters," by W. L. Schurz, April, 1916, and "Journey by Jamele Rivers to the Home of the Cock-of-the-Rock." by Ernest G. Holt November, 1933.



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### Ara Fever a Shell-type Dagout

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By them the wat, but codes (South American culter) and the cases method of construction a light can be built with a ream much greater than the danneter of the tree their The Sea Fever, for instance, which is that I fair feet in heart, was constructed of a laction and one-half feet in chameter.

Instead of bollowing out the Lie with the sules almost vertical, as is done in making an ordinary dug at, the case builder polless. It concavely through a marrow silt

To get the right thickness—about an inch of the sides to an inch and a bill on the line of the heapens numerous toles about there eighths of an inch in diameter. When the east is freshed these holes well be filled with woolen of the water causes them to swell outsit; the life water causes them to swell outsit; the life water causes them to swell.

After the bloom on a content of the most suggested step. The half blank, however vaguely like a cigar with most of the filer one, is supported on stake, open side down. A fire is built and counth and as it beats the wood men pull the sides, stretching the opening

In tweet, crawling under, inserts tweeter nore sticks to keep the widened sit own as the artful stretching continues, he replace bese with longer ones, until finally the degree reaches the right willing. Charred and excess



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# Buckbreaking Work, but Thesa Men Clan Keep It Up All Day

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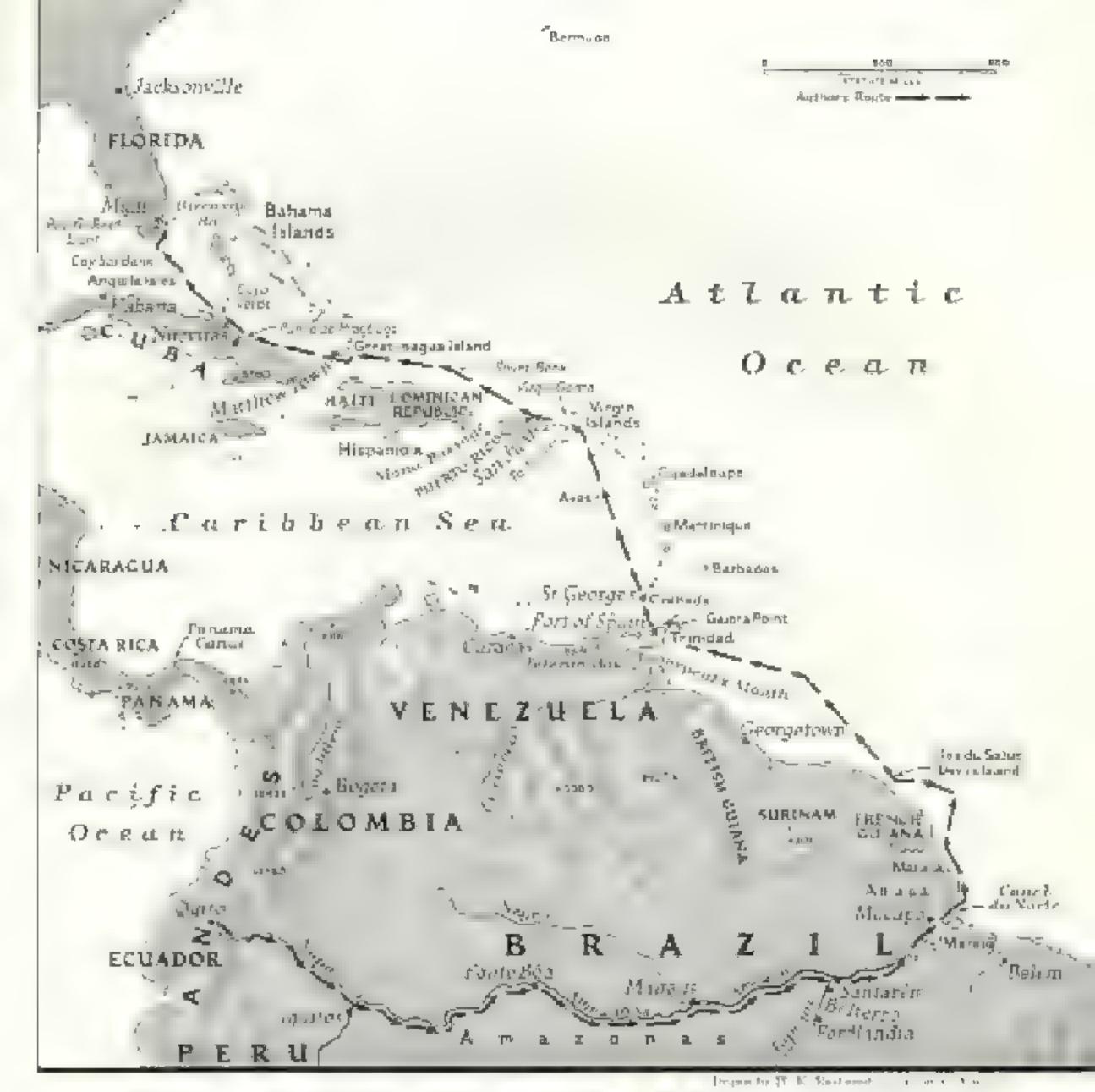
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### Page ing shown the American

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Back Home the Hard Way! The Nathor's 6,000 mile Briste from Quite to Minn

Crossing most of the South American Constrant the youthful Schools Elked over the Equatorian Andrew Appell I would be a second by the second b

I found that debris floating downstream had a tendency to remain in the portion of the river where the current was strongest. I'ven the "cross-overs," where the river swerves from one direction to another, are tarrly well marked by a line of trush and spunie. Except in the widest places, where the current is weak, the best channel is usually pretty distinctly indicated by such debris.

On the Napo all but two of my nights were spent with Incians on the shore because of the danger from rapids and log jams thring night travel. However, the great distances

on the Amson offer other problems. In the late afternoon I often was padding far from shore with no lifes where there might be a hut; so it became necessary to stay out on the river at night.

### Rocked in the Caudle of the River

Since the Amazon is so fall of thating trees and plants, it was easy to paddle up to a foating island of water hyacinths or a large tree trunk as dusk neared. The hyacinths were the best, for they were often matted together so densely that I could those a sort



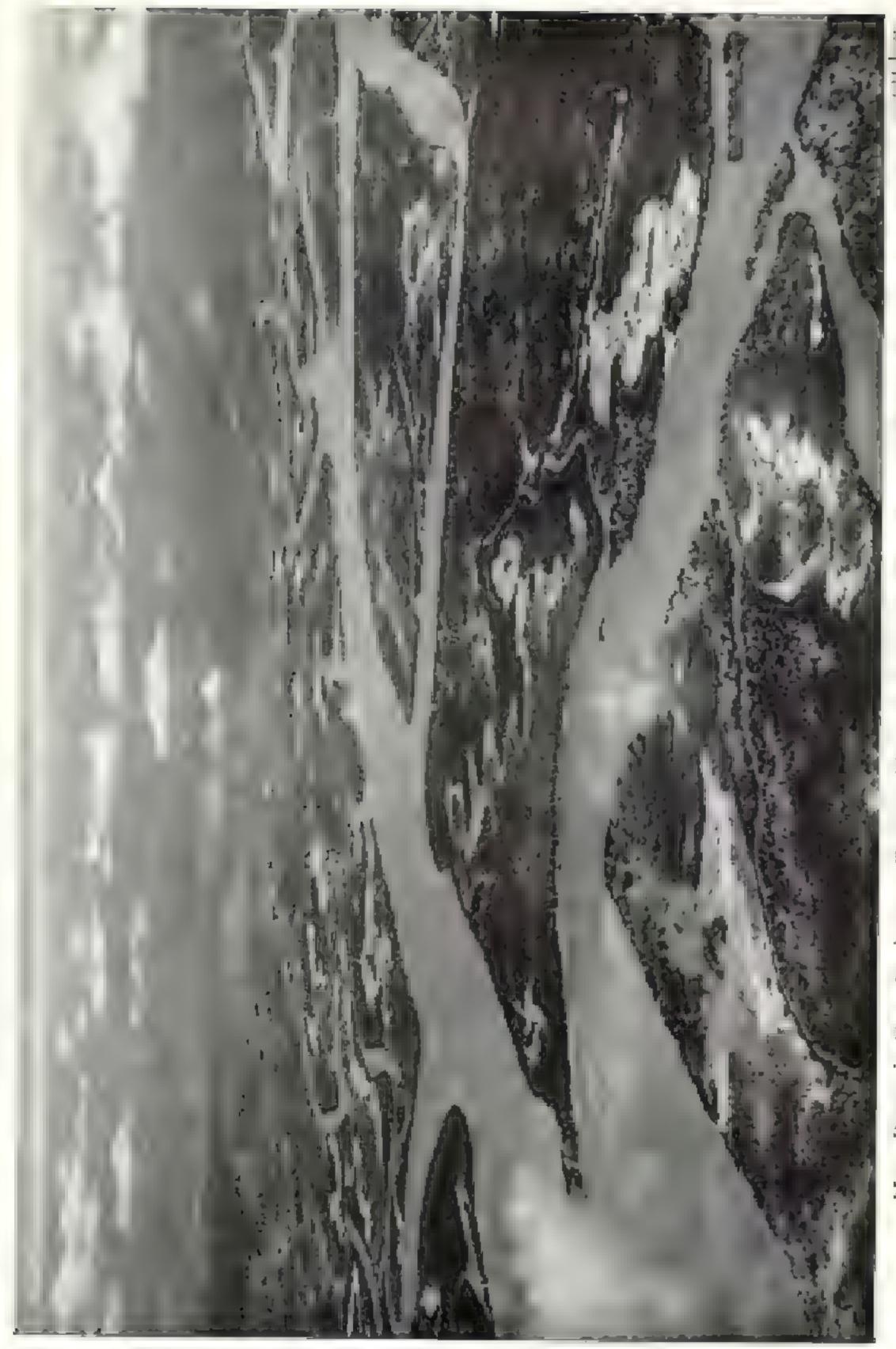
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At Iquitos, Peru, Schultz Bought His Bout, Sea J. ver

Larger than the stagent he had ased then for the powerself was a second received by the riverbank. It cost has the equivalent of \$15 % a second ly repairing an of, truck (page 189). The second in his court is a receive that the second received as the second received and the support Amazon. He is a second received and the support Amazon. He is a second received and designating and

of makeshoft anchor right late the middle of the mass. The large uniterwater area, composed of theusands of bull's, made an idea sea analog

Once secured to hyacinths or something cla-I could put up my harmonk between two little masts with a mosquito net ever the top and tranquity sleep while floating down the river. This method of night travel never once led me into the wrong channel, and many times. I awakened in the morning 30 miles downstream.

During the first week in the Sea Lever I had a tremendous amount of difficulty learn-

ing to manage ber. When I sat in the stern try leg to paddle, as I but done in my first but I found her so were and shullow that I sed to lean far over and almost twist my wrist off to keep from young arm ad in circles.

Spon I found that a rased is not supposed to be paddled from the rear, for, during the first days out of lauftos, I met an i observed natives la canoes similer to mine (page 244) When padding along they were invariably squatted in the very have of the boot with the stern quite out al the water. It looked referred but these the read to white along el. yelle irr at h The state of the state of thing in the tent of Die Sea F . .

Whenever I was nohausted from - fagg in to keep or an in course while paidling from the stern, I'd try to teach myself how to rouldle from the how 15 the natives did I inady a native showed me how to do it, and travel was much easier atter I acquired the knack. The paddle iput tolo the water to I would instead of forward and brought

in toward the body with a short, easy of old

After I learned how to handle my hare the rest of the trip to Man as was not very citic cult. I found it possible to paddle many a compared at a cood rate, and the distance paddled in the statine, combined with that finated at night, often was surprisingly large. Twice my chart showed, I covered more than 110 miles in 24 hours in stret hes where the Amazon narrowed and therefore flowed more rapidly.

At the Peru Brazil border the river for a what recame very wide, and I began to think the 12 for the fine on my vacation than I

had planned. The Score feres was such a good board and the trip so a large of the large in a large of the large in a larg

On August 15 19 day before my 19th birthday. I arroved at Manaus on the Riv Negro near its james ture with the Amazon Inges 240, 254, and m p., age 241). There I was the great of Dr Leopoldo Neves, Gaver or or of the brazillan erste of Amazonas

Having pandled 801 miles on the Napo and 1 250 on the Amazon 2 was ready to try some their land of a first pandled solls become parter in 2 and a first pandled solls become some in a first pandled solls become some in a first pandled solls become solls become

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Mr. E. H. Kirk, an American who had been a litaria train a literature before the and suited a literature before the and suited a literature of mostly affectively.

M: Will an remove of alone in at at water, to my later a sometiment. I had not no



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# What Gives These Youngsters Such a Thrill? An Airplane, of Course's

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on a line from which I got an a tend with sail my former experience in a right har been confined to a few hours in a signal has been confined to a few hours in a signal has bout in sheltered water. Bluny a time later I wished I had read those hanks even more thoroughly.

While in Manaus I met the second officer of an American cargo sup, up the river to lood Brazil mus. As we discussed my cause vague plans for reaching Trinidad, he seemed so rewhat against at finding that all the raying attends equipment I had was the parket compass with which I began the trip. However we apply the firm of the sort issued by the Martiner of more or for use in fife-rate latter as he was a former.

I have never been teach good at taking a vice so, although at the time I appreciated this kindness I must confess I wasn't terrally

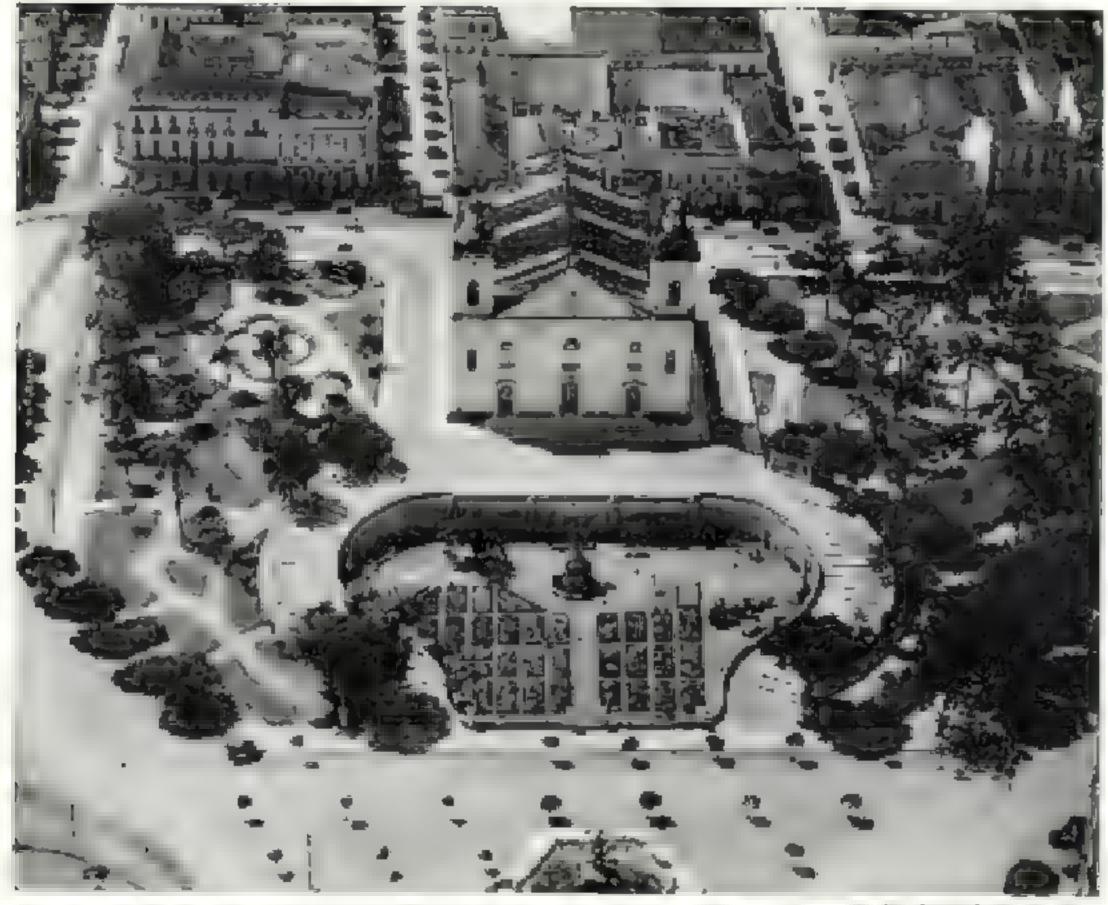
impressed by the importance of the generous cutt rost then

The Sea Frace stilled from Mannus on September 21 1947 and two securely and a variety of camerel (and, I thought I was ready to sail on to Trinidad

#### Learning to Sail-the Hard Way!

At heat there was a little deficulty in learning that the let the letter of the source of the letter of the source of the letter of the wind was always from a water at and the was necessary to tack the whole of the to the sea. However, after sailing several hundred takes I began to feel, with my upual over confidence, that I knew everything there was to know about saftre

Six days out of Manaus and 456 miles away. I field up and visited the town of Santatera, at the union of the Transac River with a



#### At Manney, Brazil, a Thousand Miles up the American Perks, Benleverds, and Public Buddings Recall i Rubber Boom Thin Stretched and Snapped

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#### Tracked by a Wilmsical Wind

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equall, so I decided to take advantage of the apportunity to wall with a stem I recor-

"Sea anchor" quickly, before the first close came overhead. I could see one riverbank as a dark line in the distance, but not the other. In the middle of the river at pight it is often impossible to tell which way the current is thorized without some reference other than the banks: however, a look at Orion showed which way was discussivenes.

Until morning I sailed with all sail set, The say had become completely overcast and I saw no stars and perther of the hanks until daybrenk. The wind must have vected around tradually, for at dawn I found I was sailing back upstream at the same rapid rate and was many in less the lover.

#### Fish Bares Manf

On another night, as I slept in madricer, senin anchored to a floating island of matted yearinths, one of the strong anchors against thurscreaking at the lower Anazan came upon me about midnight. I was floating a good distance from share, but, as the wind a pollowing across the river, within a short time I drifted up to the bank.

My anchor was dragging, and the strong wind and newes were threatening to pound my bont to pieces against the shore. To hold the Sea Freez off the sand pank, I jumped into the water, which came about up to ny chest.

Just as Lor storm was slothening. I suddenly felt a sharp, tearing bite at my left ankle. I quickly jumped into the beat; luckily, by then the wind had abased sometiently so that the anchor would hold above in the the morning I found a small hole in my leg, probably the result of a bite by a pitanha (page 247).

These small but victous carnivorous fish are greatly feared by the natives. They are particularly dangerous in the slaffow waters near the river's edge and in calm estimates away from the main current. The Indians are deathly aftant of putting any part of their bodies into shukers water.

Piranhas will attack singly, but what makes them especially dangerous is that they usually traver in schools of hundreds or even thousands, and the taste or smell of blood metricity taskes them & Hers.

I was very fortunate at to meet a school of these flesh-hungry fish. Apparently 1 merely ran into one that had stepped out for a sidnight bits

When the Sea Fever reached the Amoson Delta, I found that the current was completely slack twice a day because of the tides.

I these the porthern from hof the immense and intricate delta, and, after being lost twice in the maze of sand bars and islands, reached the little town of Macopia.

#### "Down to the Sea" at Last

In Manapa, through the kindness of Dr. Raoul Valdes and his associates, my came was fitted out in one of the loadyards of the Government of the Territory of Amapa, of which this town is the capital. Itriking was put on the New Freer Blong each side and a high coaming was mounted. A beavier sudder was constructed and a capital civer professor the cockpit.

While this work was in progress, I visited the largest port on the Amazon, Brien (page 251). Here an American ex-naval officer, Bill Ray, who was running a surplus destroyer escort up the river as a tugistal, kindly gave me a groot four-inch Navy boat compass and a stoud pump. The pump turned out to be far more important than the compass.

cor provisions the Sea Freez was stocked with 10 painted of trackers, 100 cranges, several time of jam and choculate, 10 cause of tumet a juice, and 10 galons of water in two fegallon oil cause

For some reason I firmly believed then that the staple in my det at sea was going to be raw fish. I somehow neglected to consider the last verbal in the provisions and much equipment. I had a sea anchor, a 20-point iron anchor, fishhooks and line, and extra material for repairs.

## Awerome Power of the Amazon Bure

I sailed from Marapa on December 9, 1947.

Letting the four days it took to sail down the Canal do Norte to the ocean, I observed several times the phenomenor called the powerous.

While in and around the delta I had often been warned of this tidal flood, or hore, caused by the advance of rising tidal waters through a rapidly marrowing change. Always it was described as extremely changerous,

My first experience with the Amazon bore came one morning when I was about an mice from the Atlantic. The tide was almost at low water and the stream was elbing tapidy, the total of b combining with the over's current. Along the shores many sand hars were exposed or awash, most of them covered with stranded trees and branches.

Suddenly I heard a low, ombous matter, very far away, which increased within a few matter to a rear

I first saw the wave when it was along three miles away; it was advancing very



Below Margar the Bluck Waters of The state of the s forth for the second of the



Variety Street land Th

rapidly along the shallow water near the riverbank. The other bank was too for oway to be seen, list I am told it is visited by the sume light ways.

As the large drew physist, I was about half a miss from the bank and a quarter dia male from shakew water. For at least 400 yands in front of the first waves all of the water had been drawn off the mud flat by the receding tide, leaving it pare and expusing the waterlogged and embedded debris

which covers the river in Hom.

Words cannot express the awesomeness and power of this lang. The first wave seemed to be about now teet high. It was white and breaking like a surf roller all along its upper tive feet. The whole wave seemed filled with legs and branches. Long tracks were being buried into the air and enger-sulting back, The sound, even at my distance from the back, was extremely load.

Hebind the first wave came (we smaller

omes, about 200 saids apart.

In the deeper water, where the Sea Fever was salling, the bure took the form of three Impg, high swells which, though large, were not dangerous. As soon as the waves had passed, the current was thowing up the river almost immediately at full floo I strength. I hurrously tarned in toward the bank to wait out the flood tide and found about a fathom of water twee a bank that had not had more than a foot of water of vering it 10 minutes No. Sept. 1982

The whole thing, which came and passed wi hin a few nilmites, gave an impress on of ominense and terrible power. The natives are extremely afraid of being caught in shall low water when the persona comes maring

ap lite caver

I can carrie believe that a boat even a fairly p = 0 in less than two fatheres when the tidal wave come might be in serious danger, If it were well battened down, it might not be swamped, but probably would be badly antiered by the logs carried forward on the crest of the wave

#### The Open Atlantic-and Sensickness

On December 14.1 suited out into the Atlantic on the chb title. A very heavy onshare wing was blowing; only once in the next six and a half months did I encounter stronger winds, excepting short-lived squalls.

My plan was to sail about off miles out, enter the South Ecuatorial Current, and same in that stream passifel to the coast to light of Spain, Trinidad, 4 tying ofishers, out of sight of land, the whole distance

The wind was from the east-northeast, while

the land trended north. The strong current, elding above tid really against the wind, created a casty chop. The Sea Jerry never worked too well to windward, and I found it very difficult to get away from the coast

The situation was further complicated by the fact that I immediately breame seasick and remained so for the next from dase. I was forced to reef my majesaid right away and during the afternoon took it down completely, sailing under only the fix and mizzen.

#### Pump Manned Every Half-hour

Once well out in the chop I found that the Sen Fever leaked very badly. She harn't eaked much in the river because her to than had been reasonably someth; however, in the otean the constant plunging soon besence the calking of the fittings and the coaming admitting a great deal of water. Occasional seas came over the top, soaking me tannoughly.

During the whole trip to Trinkard I found it necessary to pump every bull-hour or so For three weeks I was never able to sleep more than an hour at a time, and rarely was if that long between the times when I pumped.

The first day was really a nightmare. The temperation to turn and sail downshind to the shelter of the river und the bospitality of newfound friends was always present. However, by nightfall I had worked at least ten miles out, for kinds was no longer visible,

Setting the reduct so that the boat world sail as chose to the wind as was presable under only the jib and missen, I expected her to sail more or less pandlel to the coast until morning while I tried to catch some sleep. It continued to be very rough, but the seaswere somewhat larger and the Sog Ferrinde. more easily

everything was admit inside and I was too sick to lash anything very well. There was little room in which to sleep: I could ruly the bitter of the entry truck and my head under the after thwart,

A few minutes after I primped out the boat each time, water would begin sloshing up over the floor boards. After about 50 minutes it usually began to strike my face and thus awakened me to pumpe-endlessly, it seemed.

in the morning I found that I was only three. to les offshute and William sight of the river

mouth I had left 24 hours before!

Each of the succeeding three days was the same as the first-constant tarking away from the chast, regular pure ling, and the agains of seasickness with nothing to retch

On the marring of the fourth day our I lifentified Muraca Island and found that I had traveled tess than 100 nules. The wind stockSea Fever



Annual the Strange Creatures of the Armazon Basin Is the Glant Armadilar

colors of the many attention of the following the state of the first terminal for the first and the state of the first terminal for the f

evening. December to and the next now in, my fitth day out, there was no land in sight I was no low or a reak but was not very honors.

#### Time to Study Navigation

I port most of the mortalizes a army assist the confusion in the beat. All of the food with a six of the characters have a starning green. The firsh water had a self-beariest attempts to fish but had no strikes

molday on December 18 I was warm.

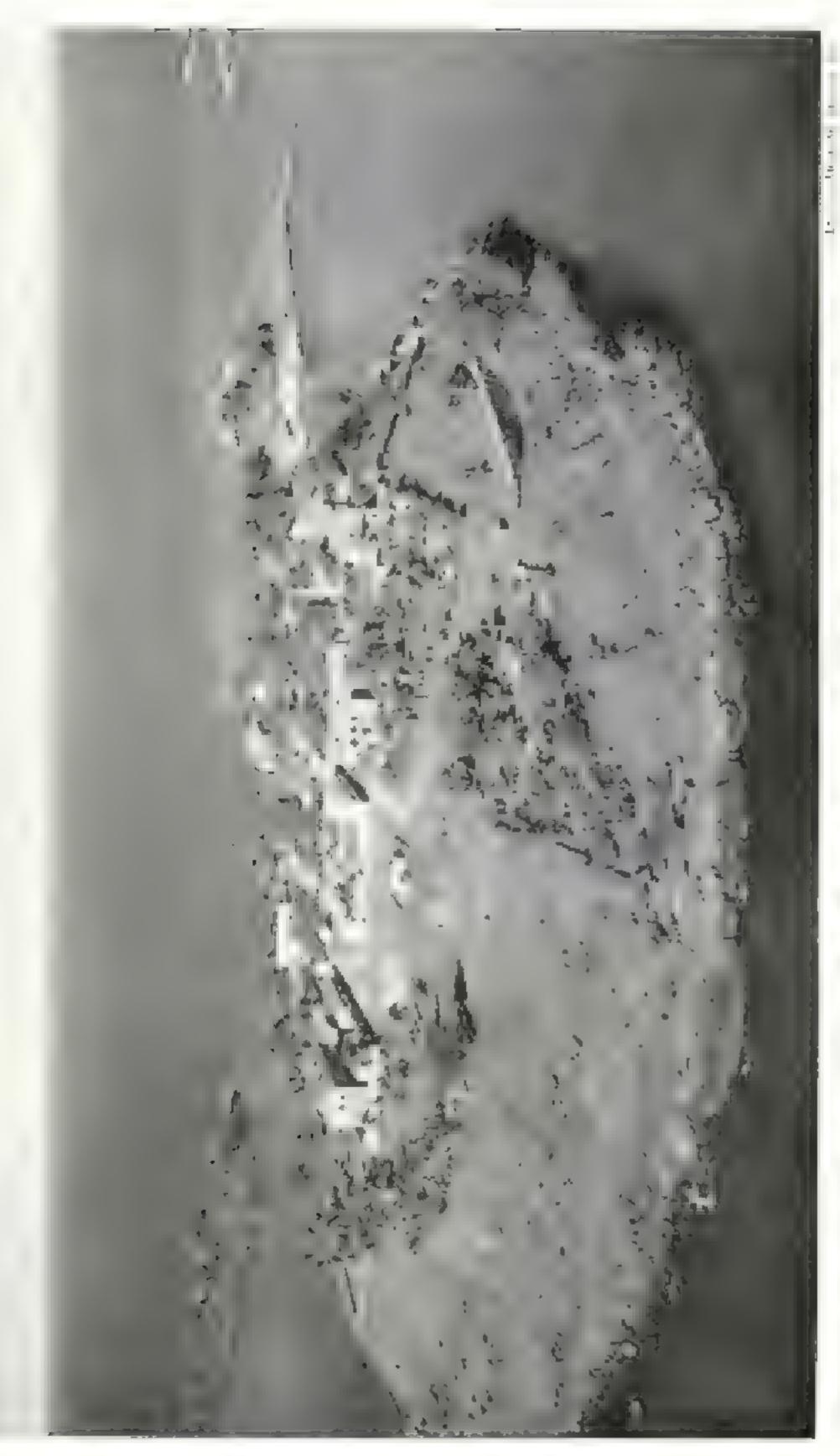
enough, and the war have war in well and a later that the pressure with a sexure of a factorial. After read to the particular the factorial and the sun. I can be the sun. I can be the sun. I can be then sun. I can be then structured.

Much to my supplies. I cent the service was to find the bases of out a position is to a clock, and an activate one at that. I find a watch of a service that set for a dollars in Below, and it gained two and a linear inter a day until it got wet and stopped.

There were several charts abound: AAS accommutated charts of the coast between the



h Townstations of Friedal Kontrar lacky black Allactor trachia haren var var



Why who has been a fight and the many of the contract of the c Death's Mand Samuel a Heaven to Setales When The state of the s



Stabilly I to

#### At Maril Schultz Shows How He & sed His Sextant

thousand the son" at sea the bearness in a large of the second to less than the second that a stay to help much that a few is the second to lash himsen to the man

An indicate of some for the sector of the region for August.

to the fact beard I take to his be of measured to a line of the location of the entire telp to be a superson to keep a fall of the entire telp to be a superson of the location of the locat

to a couple of days of practice I was

to use the sextant as instructed an

trace in I found hat when along a

ight the best method was to greet the time on that the one-half that the before come lead take down the mainsail. Then, by wrapping one again the windward shrut, the other and walgang my shadeer up underneath the shroad. I could get my rain is in

Of course in fairly make seas it was to reserve to the maself to the missen as well

Waiting until the soat swung up to the rest of a wave I would try to get a shot somewhere tear the top. I had a the rest of an interest of a noon and the son the son would be on the meridian

The pamphlet that came with the sexuant made it relatively casy to determine later de Depending on how rough the sea was. I usually found my latitude to within five miles

#### Devil's Island a Welcome Sight

The original plan

...; been to stay well

... here in the bouth

He satisfied the providence of the Lemma to the satisfied the Amazon. However, on the morning to the satisfied agit ingland, I saw an island quite near

I had made some error in mayantion. The sky had been partially overtast at moon the day before, so I had failed to get a sight Als I had one be taken a correct of the longitude.

then I are very weak of the traction to achieve water boils, so it seemed best to go achore for a visit

Not until I reached a little dock on one of these is not as I was not to the stay.

a man dressed in red-and-white pajamas, the present uniform, did I realize that I had Limbed upon the French Druit's Island penul colony, the Salut group (page 259). There were only a few prisoners ic(t—fifty or so—and three goards.

The small colony is an Royale Island, which is the highest of the type and has a light-house. M. Mantite tiestet, head of the grant detachment for the "Health Islands." was most hospitalle. My boils were treated by the prison nurse, a trusty who was formerly a l'arisian pickpocket. M. Gestet formshed me some urbaking coconats, fresh water, and more famil.

bor several days after leaving the pend rolony Sea Ferer van Into squally weather by this time i was very work; raising and lowering the mainsail became more and more of an effort. The constant pumping was weakening me, and the spreadary infects as easy much pain.

## Often Cold, Though in the Tropics

Curiously emugh, during the whole voyage and particularly during the stretch from a will's Island to Truck ad. I suffered quite a bit from the c.Id. Spray in the daytime and sheeping in the water which leaked maide the came at night combined to cause a constant thirl.

It may seem implausable, but this suffering didn't seem very in partant. It was accompanied by a kind of obstraction in which I could think very clearly and seem to be quite independent of the pain in my body, it took a great deal of currentration to do even the simplest to an involved motion, but this physical identity seemed to have no effect on thinking. The whole experience was a sort of spiritual elevation.

A few days' say from the penal colony like veloped a method of determining a line of position. On my several-months of pilot chart was much valuable information—winds, currents, etc. These tharts also show the shortest foures between principal ports. For instance, there is a heavy black line showing the shortest true electween fort of Spain and Belena. Large ships true ling between major ports shown on the pilot charts usually stoy poetty close to the courses on them, in order to cut down expenses in fuel and time.

I thought of those things; so on sichting a large ship I'd try to estimate her course. Then, since I usually knew my position to within one or two is prized miles, it was easy to look I it one of the black lines in my general area which shinted in the estimated direction

Since the ship was productly on the line and

I was pear her, it was easy to decide that I was on the "line of position" that was already nauker, but for me. If I was able to get a lattice theservation near the time that I sighted a ship, I usually felt that I know my position rather well,

## Trinidad and a Hospital Bed

Six days out of Devil's Island I saw a great tunder of sea galls for the first time, all for ing from the west early in the morning this seemed to indicate that I was closer to land thur I should have been at that Latitude

I changed course considerably to the north and the next day, along 6 a clock in the exeming, sighted Trinidad's Galera Point Light, with no further changes in course.

as was most frequente that I saw the sea gulls, for if I is I centimed on the fermer course I would have come down on the rocky and haractless eastern coast of Trinidad direing the night. Gubera Point is on the island's northeastern extremity. It took me until the extensit of the next day, New Year's, to kind in Teteron Boy at the U.S. Naval Best.

the authorities here were most generous and helpful. I was in rather had condition, but within eight caps the penicillin given me in the naval hospital clearers up most of the infectious and I felt much stronger.

After leaving the hispat, I had Mr. Montgamery H. Colladay, American consultaneral in Part of Spain. He and like facts overe most abspatishle and made my stay in Trividad pleasant (pages 25% and 262).

## Time Out for a Contracting Job

Since I had only about four dellars left, I was on the backout for ways to finance the rest of my trip. Accordingly, I was all attention when Mr. Collador cannotly mentioned that some dain sity was being encountered in finding a contractor to the a job for the United States Gov runnent. When I expressed interest, he referred me to Mr. Jan Nadal, of the U. S. Army Engineers, who explained the

During the war the U.S. Array had driven 10 prings into the sea tottom about a mile off the southwest end of Trin' Ltd. These pilings were in 20 feet of water and were used as mooring dolphins (it supply ships serving our coast artiflery base granding the berpent's March, the staft between Trinidad and the mile had the Oriolog.

This comp was no longer in use, and the United States had not agreement with the

\*Sec, in the National Groundenie Managar. 'Crosswade of the fart bleam." by Laurence Sanford Critical, September 1967.



to Sading Day Setula Lada Sagilias Before Heading North from It and

I. I tree. A district of the America con topic the specific transfer of the first transfer on the free lands constitution the reference to the second of the 1 35 11-1 11-1

erballe of the second when the transfer of the state . P 0 1 1 1 1 1 2 3 3 5 6 7 1

Lorson Contract Null Seed in Jal the art of the contract of the late of the The set of the self-tension of the first of 1 . 161 . 2 R2 1 2 & vil t . 16 t 1 . 20 C the happille of speed the act of the an of lalay the pate has been was that there were no may a language paramental (se gr. 16 o et ret o e or المراجع المراج The finds of the form of the contract of the Walter and 12 12 7 7 7 10 11 1

The aroutt rest to early he 1 1 1 1 aprenti next on the language will be applicable. [[ [ ] [ ] ]

I suggested to Mr. Nadal that I sight in present or the late of the section I as with an eight-morabs' beard I of a rait or disceptiable. The single is by a plans read Mr. Nadak such interfere to com-• m + • • h for the contests

He arrive is a more dublines when he , and on our le apital I had avadable and

Trivil our good ners to be the Link lem for dollars. He sail is well personal terretain personal and the personal per Section of the state of the section we be to required capital as as a intern fer e which I . . . !

a surface to seem the attis of youth of which has a first arrest of the may of the last of the transfer of the TIBETO TO THE COLUMN TO SEE STATE OF SECTION OF spip top to the section to the is the tell the south fifth the theory of hand, full, to a part of the tre has see the البرياء والأعلام والأمال والمراجل والمراجل المراجل المالي 11 1211 1 25

I been to the resulting bottom to the come the prings, and occur tried us a under with the pulage were there is a and a hard I fared throat impresside to out fem. They are criven 10 feet is to the 173.1.1

to be the state of was that latte by the of A fact, I reft from

here we have to be to the part, I had the grant to the rest of the first of the state of in a cultivariation in Landau, Westerland from with ordered bleas on the of the Sea Fever



Giving Its Last Gusp, This Vanster Will Carry Off No More Calves

Man a februal feet. We must be found to the Amazon Debo, by Hawh B. E. H. Many man februar M. and the Amazon Debo, by Hawh B. E. H. Many man februar M. and the Amazon Debo, by Hawh B. E. H. Many man februar M. and the Amazon Debo, by Hawh B. E. H. Many man februar M. and the second of the second of the second february M. Second Debo, and the feet to the second of the second of

job might be done and finally de ided to form a partnership—he to furnish the capital and

I to perform the job-

Mr. Nadal seemed little more impressed by I want to be it delimber engineering from them by me alone. He felt certain that, if we would not only be unable to the contract, we would not only be unable in worse condition for the next contractor as a guarantee against that, he suggested that we place as a deposit 20 percent of our backs value,

#### Done in Three Days for \$87.50.

There were three beds—one at \$2.500, one at \$2,000, and curs at \$1,100. As low labeler, we were a worded the contract.

Muc that it was simple. First, I rented a diving belief, for pump, and base; then I brught 100 pounds of dynamite and a little backlet. More to Use Dynamite. I had been assured that dynamite a add only splinter the pies and not remove them commetely, as the contract questied. However, I decided to try that plan first.

thring the same pative boatman and two

bottom. The first day was mostly experimental, since I had never been in a civing belinet before and the parage didn't work properly until I made some repairs.

The files, bear the Serpent's Mouth, were in a strong swirl of the current formed by the merging of the Original River and a branch of the South Equatorial Current. The current and the muddy discharge from the Uring of made diving of first difficult and very frightening. However, once started it was really quite easy. In three days dynamating and cleanly removed the whole ten piles at a total cost of \$87.50

Must of my share of the profit wo used in preparing the Seq Fe in to confine the

Virk age

I had a very large centerboard made, one weighing 115 pointeds. Also, canyas was paudown on the deck to stop it from leaking which a didn't. The fittings were refusitened and recalled to stop them from leaking which they didn't. The centerboard trunk was unced and refusitened to stop it from leaking—which failed, to a

I made a new salk a jiblike one to be used in ranning before the wind; it defait work.

A new sea anchor and the fitting of the heat with ours (she was much too heavy to be paidled by now) completed the list of the major work done on her. Mr. Peter Stente, commodore of the Trinistad Yield Club cave me invaluable advice.

#### Last Five Miles Take 24 Hours

The Sea better saied from Troubled on May 4, 1948. It tained hard the first afternoon, and I had not sailed 10 miles before I learned how little use was all my refitting in Trinidad. The hoat leaked even worse than before, and in the chappy seas off the arth coast of Trinklad I so a became very seasiek.

Trinidud and Grenada was made in good time. I signted the island almost exactly 24 hours after salling from Trinidae—den spont the next 24 hours salling five miles but the harman of St. Grouge's. A combination of unusual tides and currents and a choppy seakept me tasking back and forth all night and most of the day, slowly working to wind-ward.

Storing this tantalizing day, so close to the shore I wished to reach, my seasickness grew much worse. Having had nothing to retch for more than a day, the morning after sighting and I began to retch hoors. I was most unappy usual I reached St. George's that afternoon

Under the circumstances it was something of a shock to read the port officer's return and find the regage listed as "Pleasure craise." The Sea Fever was algorithed with the designation "Caroes yas ht."

After several days in St. George's I set sail agt a, intending to go through the Mona Passage between Prerbs Rico and the Dominican Republic. My plan was to stop at Aves Island, a barren rock owned by Venezgela.

Of course I was season again for the first two days, and after five days I realized that I had missed Aves Island. By then my watch was useless and accurate a vigation deficult.

Shorks followed the boot but I was unable to catch any. Again I was very weak and ill—Salt-water bods once more were breaking out all over my body.

On the sixth day and part of the seventh I had very heavy weather and for of it necessary to take down my sade and lie to a sea anchor. The Sea Ferer was still leaking hadly, and, since I had left most of my warmer threes in Trinided, I was often o bit I may gated, pumped continually, and sailed out it was as if those duties and actions were m, ependent of my.

One matring I awakened to find the Seabet of sailing straight for a high civif, the first land I had seen in seven days. I had not expected to sight land for mather couple of days and was throng about my longitude.

The obvious thing to do was to use an unlight and extremely accurate method of nucleation—I went ashore and asked where I was! I found that I was in the Mritish Virgin Islands and had struck the Islands of Virgin Gorda

I was very sick and asked the way to the agarest hi spital. I salled over to Read Town, on Tortola where the Commissioner of the group placed me in the hospital quiter excellent care.

Since no one was abouted to pump, the Sea Ferrer filled with water at the cook the first night in Road Town—to demonstrate again how "seaworthy" she was. However, not natural Lucyancy kept her from actually sinking.

When my infections partly cleared up, I sailed on from Tartola to San Juan. Puerto Rico,\* sailing 114 miles in 29 hours.

In Partic Raw the Sea Frace was kept at the Club Nautica and further transce I and taked by the club's slipwrights. Here, in response to his lattons, I gave several lectures on my veyage. As the guest of Mr. and Mrs. George A. Stuckert, Jr., I had a most comfortable stay

After taking on rations and water, Sea Ecocreaited on June 4 for the last leg of the voyage to Miana. Again I was sensick, but since the weather was public not seriously so

#### Aground 60 Mides from Land

Five days out of San Juan about 10 o'clock one calm evening, I suddenly struck sumathing hard. The beat heelest over, my kerosene tub sing light went out, and water started streaming in one side as I paunded on a reef the anabor thain became forded at and a rack as the canoe keelest over on her side. amost swamped.

La my eagerness not to strike the northern coast of Hispanicia I had sailed too much to the north and struck Silver Fank, a group decord recis some (O miles from the nearest land. I took down the sails and spent the rest of the mathr pumping, for the heat leaker badly all night long

In the morning I found that the shock of striking the rect had torn a large eyebolt from the bow, leaving a hole below the water line.

"See, In the Narmonal Generalise Modalise Purio Russ the Gale of Rubes" In John Olive La Gorce, frecember, 1924; and "Purito Russ, Watel dag of the Cambbean," by E. John Long, December 1949.

S. Lour



See Lee / Draws a Crowd at St. George's Greenata. Pseu Kilent Is. June"



S. In living this A. ver Reach Mount After a Fabulous Vayage from the Amazon

of the standard of the life bases by housing lappy

I cut a wooden plug and, swimming down, punded the plug latertae hole. This stopped much of the reaking,

Running into two days of calm weather after having the bank, I often west swimming and read a good deal after drying out the few broks 1 carried. Sometimes, with first a light following Lreeze, I put a rope over the stern and dropped back to the end, being tweed through the water by my own hoat. This pleasure was occasionally married by the oppearance of a shark. Then, of course, I got into the local in a burry.

#### First Landfall in 10 Days

One day, shortly after hitting the reef. I sighted a sail in the distance and gradually came up to it. The craft was a Italiantian shop carrying dried centh to Harts. From her them I got some fresh water and a loaf of laced.

On the tenth moreing out of San Juan I awakened to find myself eight or nine miles north of my intended Landfull, Great inages island. Sighting hard was even more exciting than usual, sin e this 10-day passage was the longest I had had between Landfalls.

Shortly after, two other exciting though

happened.

I always left a fishing line trailing belief the host but rarely booked at it. I suddenly saw it in violent motion and pulled it in the land a 25-pannel deliphia, almost dead from

its struggles against the line,

See Fever was rolling widtly in a rough beam sea, and a lot of spray was coming over the load. As I sat on the windward rail to hold bet down, a sittle brown sea bird broded on my bare bend. This bird, a modify term, seemed to have lattle fear of the and grasped my hale tenaciously whenever a particularly vinent roll of the game started to mesent him. He seemed not even frightened by the strendous steering my essary because of the heavy rollers.

I postpourd pumping as long as possible so that the bird might have a perch. He flew away only when I finally had to stagger

forward to pump,

It took all day to sail around a point and along the southern roust to Matthew Tawn I arrived there after dark and spert several days repairing some of the damage dane by the teel.

#### Mass Touches Water in Storm

Sailing again, I intended to make Minninonstop: but on the than day out I encountered the strongest storm I met on the whole trip, excepting short-lived squalls. Occasionally one of the mountainous seas would break under the Sea Ferrer rolling her over so far that even the top of the most touched water. The large centerboard that I had one le in Trinidad was of great value than leven when the boat was knocked down and had swamped, the centerboard brought her back after the breaking wave bad passed—but left me the Joh of pumpag out all the water.

During one of the "knock-downs" my sextant fell out into the boat and I stepped on it. Navigational officers, who seem to regard sextants as somewhat holy instruments, to be treated with great reverence, would be shocked at the things it was necessary to do to mine A piece of matchatak, carefully whiteled down, teplaced a rusted mirror spring. The shades were replaced with a broken pair of standards were replaced with a broken pair of standards, and the whole thing was used upside down, for the mirror was almost gone

I finally sighted Cuba\* and went ashure at the I unta de Practions, where the pilots for the port of Nacyttas allowed me to stay

ose 11.

Next day about sunset I was skirting the long battier reel which guards the northeast coast of Cuba when I sighted an islet and thought there was a passage to it. There wasn't?

Premond as breakers smashed the Sca Freeze land against the coral reef on three separate brunces. She filled with water. I lost a be it equipment: the main boom, the gumber, and the bowspiit were carried away, and the sail was ripped in several places. However, I was locky and was washed by the waves into the quieter lagoon inside. I managed to get ashore on the little island, Cayo Yerde.

#### Fisherfolk Find Peace (I Mind

I spent three happy days with a fisher family aving on this isolated rock. With the father and son I went turtle fishing. They set their big nets in 10 fathers of water. Turtles swam into the nots and entargled themselves. Every two months the family took salted turtle and precious toruse shell into most-by Nuevitus for sale

I his kind family lent me tooks to patch my rigging, and the women sewed the sail.

the attention while I was on Cayo Verde some shack ashermen came over the some reef I had crossed and were wrecked. Thea that bottomed willbust was sunk, and several thousand pounds of shark were lost. We helped them salvage what they could,

"See, in the National Common Manager Sugar Howl" by Melville Bell for two or January, 1947



No Specide ce, Sen From Rarely Sailed Faster than a Man Can Walk

The first party is the set of the first of t

The spirit in this fisher family streng laned an impression of tranquillity of smerfalls an impression of tranquillity of smill, an acceptance of whatever transpillity of whatever transpillity as tapricious as the wind, the weather, and the fish seem to have a better outlies an life than many in the city who have more on veniences but note a of peart

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# Biggest Worm Farm Caters to Platypuses

By W. H. NICHOLAS

In the Chillar of its lion house, New Island in the world, the Zoo's pampered duck-billed platypuses, text and Penelope, are the muse of this wholesale worm manufactury. They demand 25,000 big earthworms in their diet each month, along with an assortment of night crawlers.

their constate in captivity, Betty, didn't help the situation much. Winter was coming on and a worm's growth in winter is slow. To supply the main dish on the menu for two platypreses in cold weather is as much of a job as doing it for three in the summer.

When Cecil, Betty, and Penchaps embarked on the high seas, on route from their Australian homeland to New York, in the spring of 1947, Zon authorities began to warry about supplying them with worms. To Christopher W. Coates, curator of the New York Aquation, went the dublous honor of assuring the platypuses a regular daily handout.

#### Food Warns Short-and High-priced

The state of the property of the state of th

So we had to start from scratch and build up our own supply from what breeding stock

we could purchase.

The platypuses need two pounds of worms a day. Depending on size, from 150 to 1,000 women weigh one pound. Of the large size we generally supply, the platypuses consume

25 000 warms a march

Our initial order for worms was for 25,000, After three months had elapsed, the dealer thally shipped as 3,590. They arrive I about 4 p.m. on brokey, December 20, in the middle of a sounstorm. Christmas fell on the following Wednesday, and I had made pians to go away from the Zou for a long week end. My trip had to be aban loned, for the worms demanded immediate case.

"No one at the Zor, including myself they much about worms. I distinctly recall picking them up gingerly, one by one, with a pair of tweezers. I soon got over that, and so did tankmen Thomas Callahan and James

Makedin, two Aquarium attendants who were used to the actual work of handling the warne.

#### Wormer Flown to Panama

"We left our way along, and by early April, 1947, we had built up a stock which encouraged us. Then we received a telegram from Mr. David Fleay, the Australian naturalist who was bringing the platyposes to America, advising that he had run out of worms in mid Pacific and requesting that we fly a consignment of 10,000 to Panarra to meet his ship when it passed through the Canal. This we did, although we felt sorry about depleting

our breeding stock at this point.

"Then cathe another blow. The platypuses rejected some of the worms. That means we had to grow better ones. We went all over brond Park booking for various types of worms. By the time the platypuses arrived in late April, 1947, we had found an unidentified species that turned out to be satisfactory. We called them 'fighter warms' because they are so active, although now we refer to them as 'leafworms,' because they occur in decayed leaves. We haven't had time yet to identify our worms scientifically.

"We discovered that our stock thrived best on a basic mixture of soil and clar leaves (page 272). We also discovered that night crawlers were satisfactory as supplemental rations, although the platypuses will not cut them exclusively for more than two days at a time.

"Callahan and Malcolm entered into the spirit of the thing, for this was a definite thallenge to all of us. They would come ack to the park after dark and spot I kely places for fading words. And they have become

adept at catch he night crawlers 100,

the grass parallel with a strip of sidewalk, picking up the trawlers as fast as he can and tossue them on the centrete. He sometimes walks 100 feet doing this and then retraces his steps, scooping the crawlers off the sidewalk. The crawlers aren't be thered by the ted light, and do not vanish as they do when prospective fishermen go hunting for then, with a oright flashlight.

"We have bred night conviers in captivity

for the first time to my knowledge,

"In the early draws we used to count the worms, but, as our volume of production rose, we discarded that tedious method and had measure them out in containers which half two pounds, or a one-day supply.



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#### Wormlets Require Balanced Diet

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I in higher than the profit made and female. reproductive organs, located near its neck When a tiny, gelatinlike hand forms back of a woom's neck, it shows the treature in ready for breeding (page 273). When a pair



#### \* Circit, One of Bronx Zor & Two Dackets Hed Platepases, Thraves on Worms

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Few American Indiana Ever Went Fishing with Worms Like These

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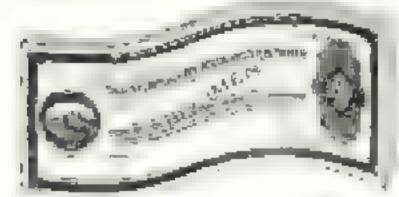


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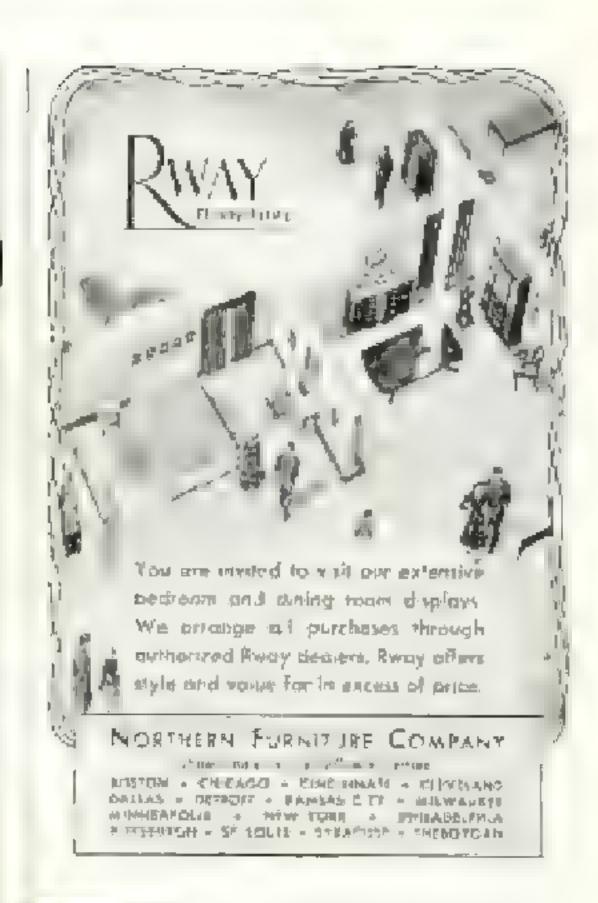


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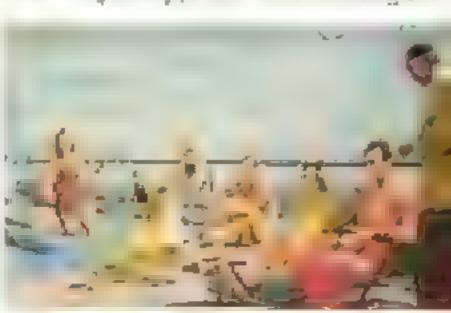
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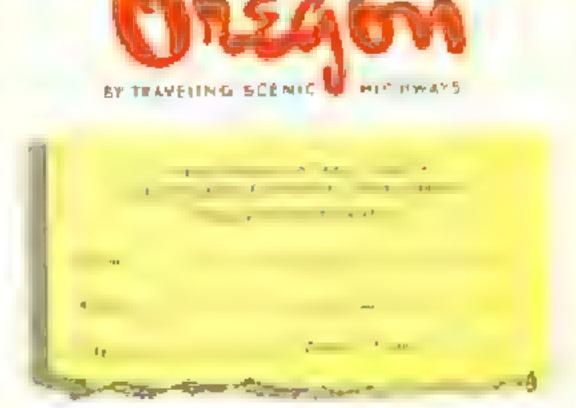






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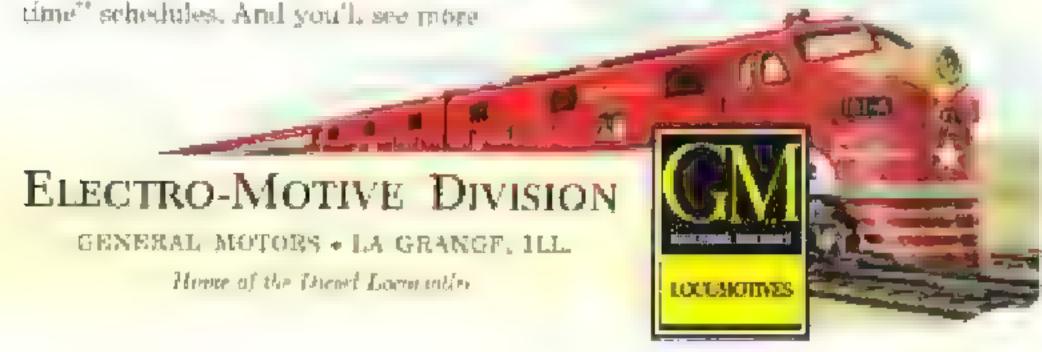
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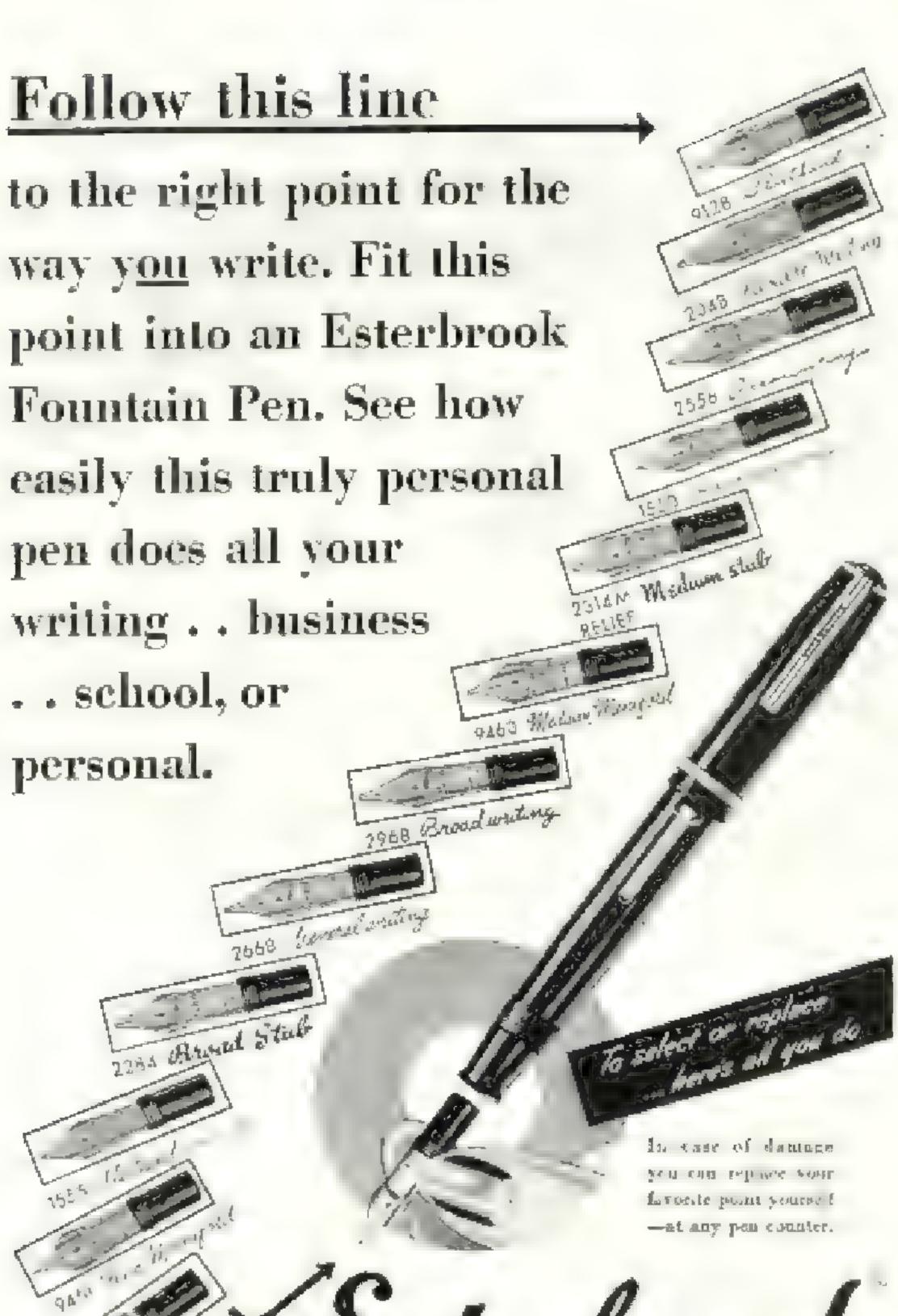
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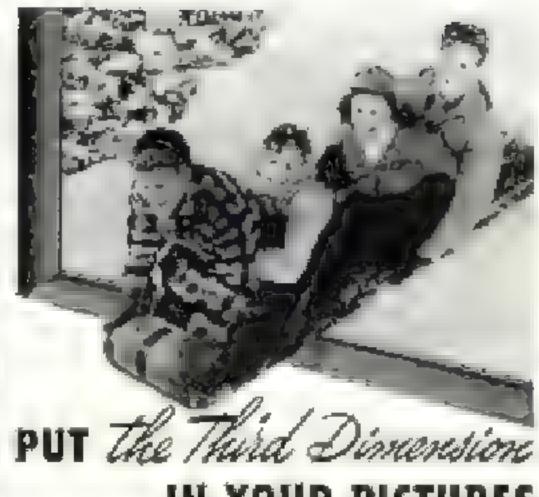




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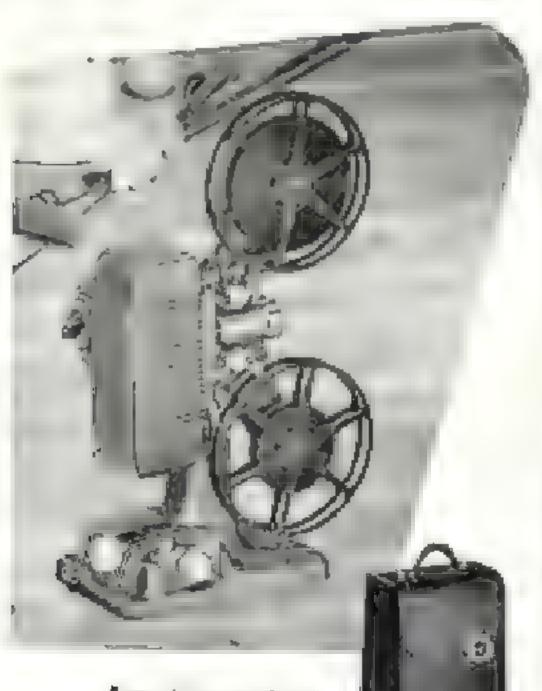
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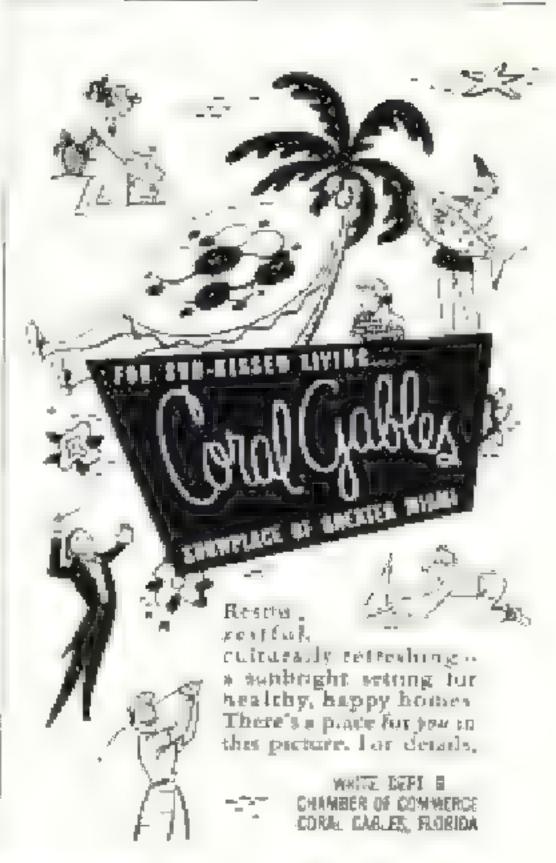
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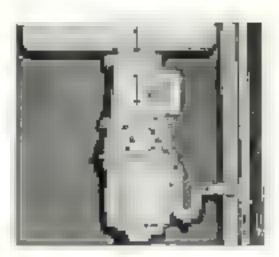
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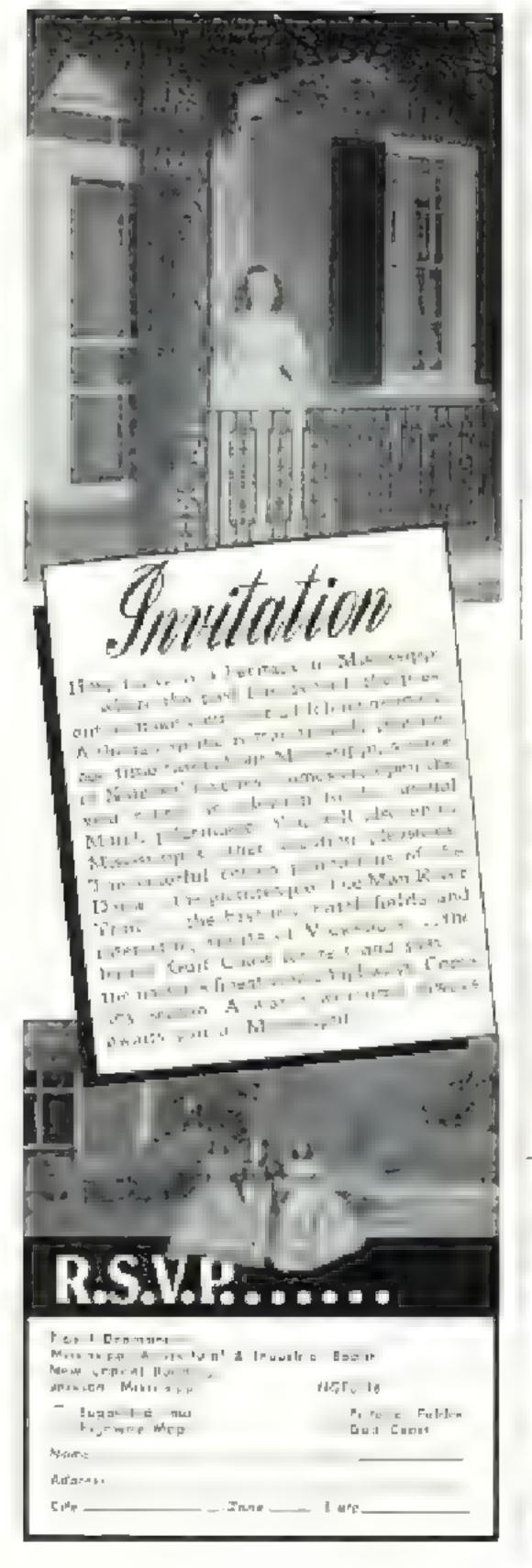
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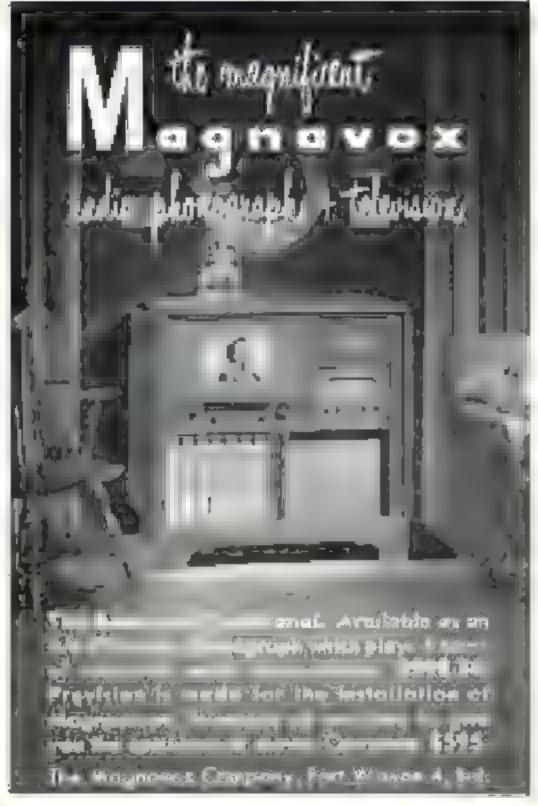


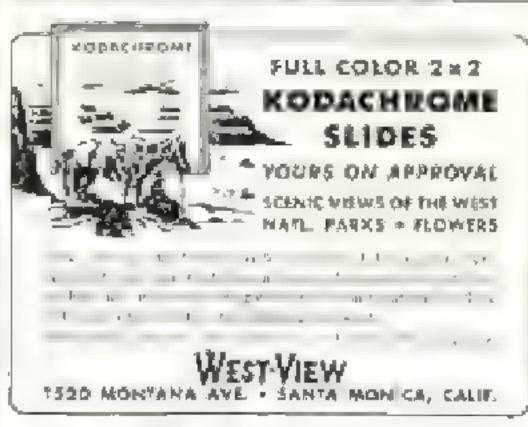
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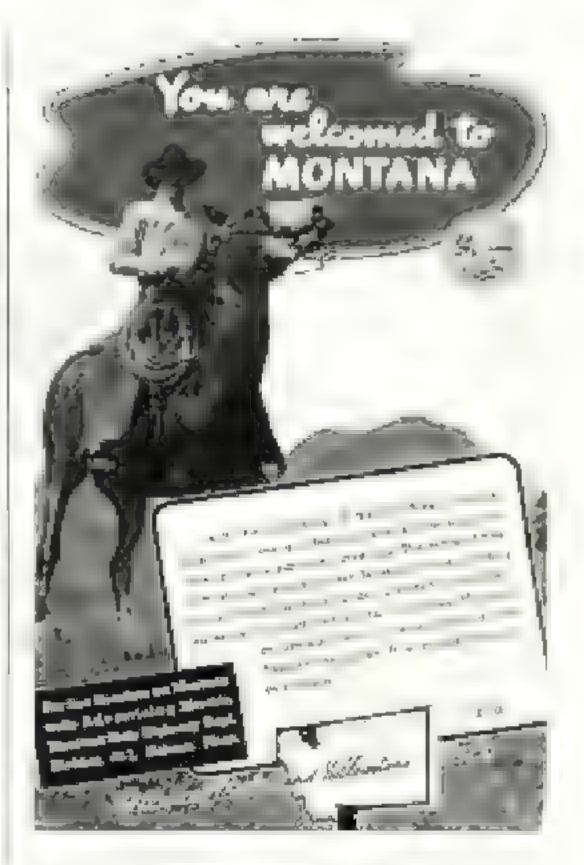
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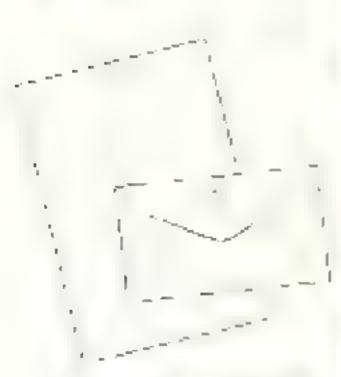
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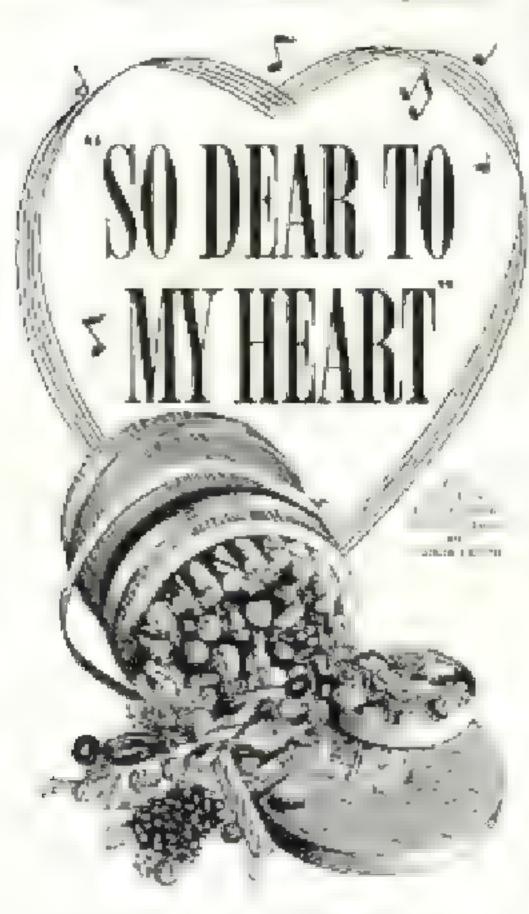
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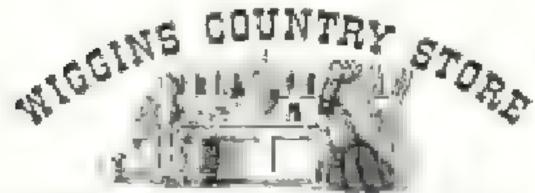
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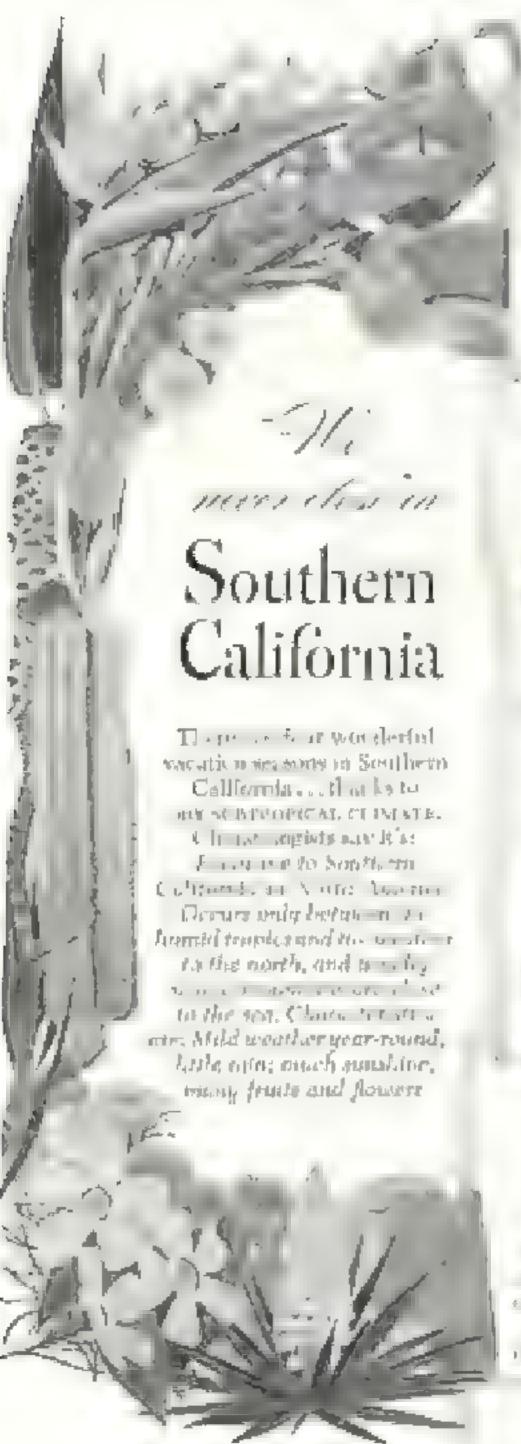


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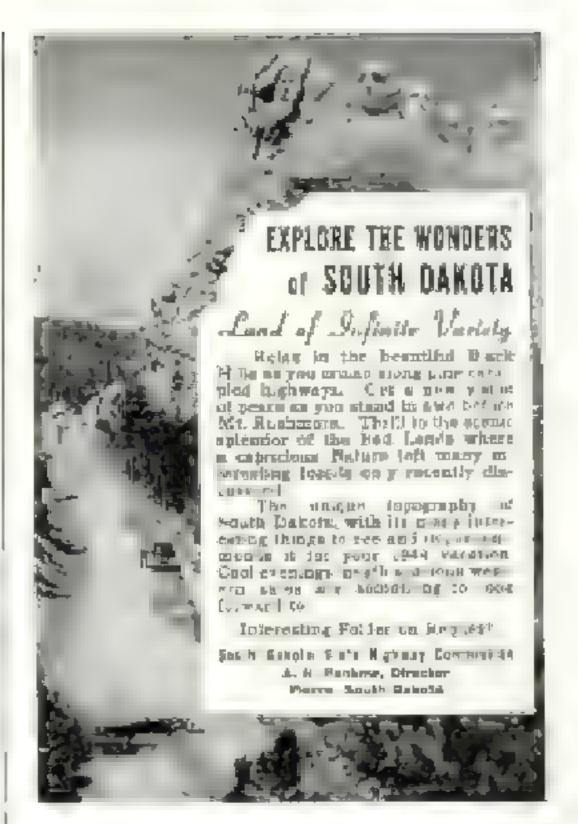
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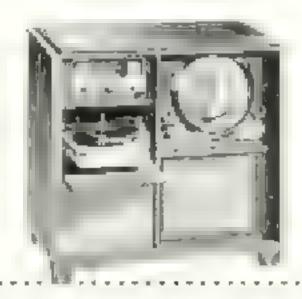
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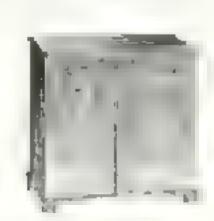
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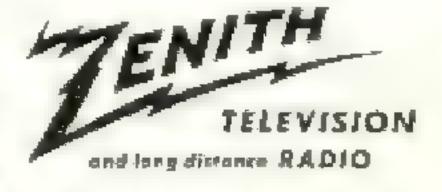
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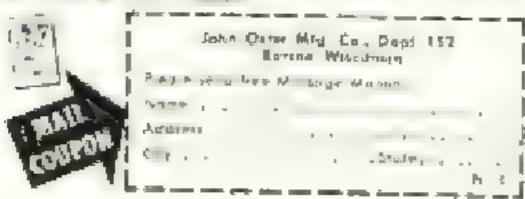
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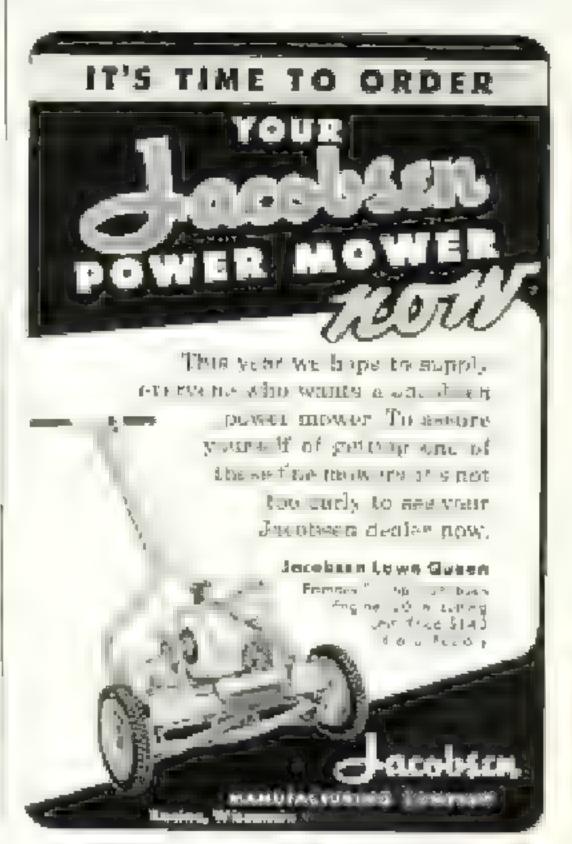
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## Living a Good Life with a Bad Heart



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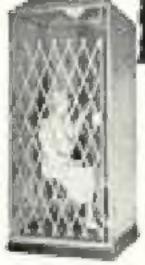
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